GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: April 10, 2002, 21:32:13 ; Search time 107.54 Seconds
(without alignments)
2672.499 Million cell updates/sec

Title: US-09-380-276A-1
Perfect score: 1269
Sequence: 1 atggctttaaaagtgctact.....ggcagcgactgggttccctg 1269

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 113238999 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	435.4	34.3	893	4	US-09-286-529-8	Sequence 8, Appli
	2	314	24.7	623	4	US-09-286-529-9	Sequence 9, Appli
	3	36.4	2.9	1601	1	US-08-722-001-7	Sequence 7, Appli
	4	36.4	2.9	1987	1	US-08-722-001-26	Sequence 26, Appl
	5	36.4	2.9	1997	1	US-08-722-001-27	Sequence 27, Appl
	6	36.4	2.9	2004	1	US-08-722-001-11	Sequence 11, Appl
	7	36.2	2.9	2485	1	US-08-424-424B-1	Sequence 1, Appli
	8	36.2	2.9	2486	5	PCT-US94-05363A-1	Sequence 1, Appli
c	9	36	2.8	4136	4	US-09-103-875-2	Sequence 2, Appli
	10	35.6	2.8	1150	4	US-09-372-934-3	Sequence 3, Appli
	11	34.8	2.7	1639	1	US-08-334-698-5	Sequence 5, Appli
	12	34.8	2.7	1639	1	US-08-228-932-5	Sequence 5, Appli
	13	34.8	2.7	1639	1	US-08-468-939-5	Sequence 5, Appli
	14	34.8	2.7	1639	2	US-08-406-855A-5	Sequence 5, Appli
	15	34.8	2.7	1639	2	US-08-722-190-5	Sequence 5, Appli
	16	34.8	2.7	1639	3	US-08-244-354-5	Sequence 5, Appli
	17	34.8	2.7	1639	3	US-09-206-899-5	Sequence 5, Appli
	18	34.8	2.7	1639	5	PCT-US95-04203-5	Sequence 5, Appli
	19	34.6	2.7	5962	6	5386025-5	Patent No. 5386025
c	20	34.6	2.7	7218	1	US-08-232-463-14	Sequence 14, Appl
c	21	33.6	2.6	800	2	US-08-416-603-11	Sequence 11, Appl
	22	33.4	2.6	4360	1	US-08-470-350B-1	Sequence 1, Appli
c	23	33	2.6	9472	1	US-08-325-547-9	Sequence 9, Appli
	24	32.8	2.6	2230	1	US-08-200-512-1	Sequence 1, Appli
	25	32.6	2.6	1593	2	US-08-524-828-2	Sequence 2, Appli
	26	32.6	2.6	1593	2	US-08-975-114A-2	Sequence 2, Appli
	27	32.6	2.6	1593	3	US-08-849-281A-2	Sequence 2, Appli
	28	32.6	2.6	2247	2	US-08-524-828-1	Sequence 1, Appli
	29	32.6	2.6	2247	2	US-08-975-114A-1	Sequence 1, Appli
c	30	32.6	2.6	3891	1	US-08-480-604A-27	Sequence 27, Appl
c	31	32.6	2.6	3891	2	US-08-405-496A-27	Sequence 27, Appl
c	32	32.6	2.6	3891	4	US-08-915-136-27	Sequence 27, Appl
	33	32.4	2.6	1167	1	US-07-960-985-1	Sequence 1, Appli
	34	32.4	2.6	1167	2	US-08-496-671-1	Sequence 1, Appli
	35	32.4	2.6	1280	4	US-09-096-776B-4	Sequence 4, Appli
	36	32.4	2.6	1491	4	US-09-082-092-9	Sequence 9, Appli
	37	32.4	2.6	1524	4	US-08-840-767-3	Sequence 3, Appli
c	38	32.4	2.6	1690	2	US-08-461-812-3	Sequence 3, Appli
	39	32.4	2.6	3083	2	US-08-480-994-36	Sequence 36, Appl
	40	32.4	2.6	3083	2	US-08-616-844-36	Sequence 36, Appl
	41	32.4	2.6	3083	2	US-08-599-654-36	Sequence 36, Appl
	42	32.4	2.6	3083	2	US-08-485-573-36	Sequence 36, Appl
	43	32.4	2.6	3083	3	US-08-944-868A-36	Sequence 36, Appl
	44	32.4	2.6	3083	3	US-08-944-423A-36	Sequence 36, Appl
	45	32.4	2.6	3083	3	US-08-925-743-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-09-286-529-8
; Sequence 8, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 893
; TYPE: DNA
; ORGANISM: human
US-09-286-529-8

Query Match 34.3%; Score 435.4; DB 4; Length 893;
Best Local Similarity 82.1%; Pred. No. 1.1e-125;
Matches 513; Conservative 0; Mismatches 111; Indels 1; Gaps 1;

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           |||||  | || || ||||    |||   ||    | | ||| ||    |  | || |||
Db      55 atggcactcaaggtcctacctctacacaggacggtgctcttcgctgccattctcttccta 114

Qy      61 ggctatttgtcatgtaaagtgacttgtgaaacaggagactgtagacagcaagaattcagg 120
             | |  || |||||||||||| ||| ||||| ||||| || || ||||| ||||||| |
Db     115 ctccacctggcatgtaaagtgagttgcgaaaccggagattgcaggcagcaggaattcaag 174

Qy     121 gatcggtctggaaactgtgttccctgcaaccagtgtgggccaggcatggagttgtctaag 180
           ||||| |||||||||||||| | |||||| ||||| || || |||||||||||||| |||
Db     175 gatcgatctggaaactgtgtcctctgcaaacagtgcggacctggcatggagttgtccaag 234

Qy     181 gaatgtggcttcggctatggggaggatgcacagtgtgtgacgtgccggctgcacaggttc 240
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Db     235 gaatgtggcttcggctatggggaggatgcacagtgtgtgccctgcaggccgcaccggttc 294

Qy     241 aaggaggactggggcttccagaaatgcaagccctgtctggactgcgcagtggtgaaccgc 300
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Qy     301 tttcagaaggcaaattgttcagccaccagtgatgccatctgcggggactgcttgccagga 360
           ||||||| ||| || || |||  |||||||||||  ||||||||||||| ||||||||
Db     355 tttcagagggccaactgctcacacaccagtgatgctgtctgcggggactgcctgccagga 414

Qy     361 ttttataggaagacgaaacttgtcggctttcaagacatggagtgtgtgccttgtggagac 420
           |||||  ||||||| ||||| || || ||||||||||||||||||||||| || ||||||
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Qy    421 cctcctcctccttacgaaccgcactgtgccagcaaggtcaacctcgtgaagatcgcgtcc 480
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Db    475 ccacctcctccctacgaaccacactgtaccagcaaggtgaaccttgtgaagatctcctcc 534

Qy    481 acggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctctggccacc 540
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Qy    541 gtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttatggagaag 600
          || |||||| | |||||||||||| |||||||||| || ||||| ||||| |||||||||
Db    595 gtgctgctcg-cctgctcatcctgtgtgtcatctactgcaagaggcagttcatggagaag 653

Qy    601 aaacccagctggtctctgcggtcac 625
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RESULT   2
US-09-286-529-9
; Sequence 9, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
;  APPLICANT:  Catherine Tribouley
;  TITLE OF INVENTION:  NEW MEMBERS OF TNF AND TNFR FAMILIES
;  FILE REFERENCE:  1408.003/200130.439C1
;  CURRENT APPLICATION NUMBER: US/09/286,529
;  CURRENT FILING DATE:  1999-04-05
;  NUMBER OF SEQ ID NOS:  25
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 623
;   TYPE: DNA
;   ORGANISM: human
US-09-286-529-9
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  Query Match             24.7%;  Score 314;  DB 4;  Length 623;
  Best Local Similarity   78.9%;  Pred. No. 5.3e-88;
  Matches  374;  Conservative    0;  Mismatches  100;  Indels    0;  Gaps    0;

Qy      1 atggctttaaaagtgctactagaacaagagaaaacgtttttcactcttttagtattacta 60
          |||||  | || || ||||    |||   ||    | | ||| ||    |  | || |||
Db    116 atggcactcaaggtcctacctctacacaggacggtgctcttcgctgccattctcttccta 175

Qy     61 ggctatttgtcatgtaaagtgacttgtgaaacaggagactgtagacagcaagaattcagg 120
            | |  || |||||||||||| ||| ||||| ||||| || || |||| |||||||
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Qy    121 gatcggtctggaaactgtgttccctgcaaccagtgtgggccaggcatggagttgtctaag 180
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Db    236 gatcgatctggaaactgtgtcctctgcaaacagtgcggacctggcatggagttgtccaag 295

Qy    181 gaatgtggcttcggctatggggaggatgcacagtgtgtgacgtgccggctgcacaggttc 240
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Db    296 gaatgtggcttcggctatggggaggatgcacagtgtgtgccctgcaggccgcaccggttc 355

Qy    241 aaggaggactggggcttccagaaatgcaagccctgtctggactgcgcagtggtgaaccgc 300
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Qy    301 tttcagaaggcaaattgttcagccaccagtgatgccatctgcggggactgcttgccagga 360
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Db    416 tttcagagggccaactgctcacacaccagtgatgctgtctgcggggactgcctgccagga 475

Qy    361 ttttataggaagacgaaacttgtcggctttcaagacatggagtgtgtgccttgtggagac 420
          |||||  ||||||| ||||| || || ||||||||||||||||||||||| || ||||||
Db    476 ttttaccggaagaccaaactggttggttttcaagacatggagtgtgtgccctgcggagac 535

Qy    421 cctcctcctccttacgaaccgcactgtgccagcaaggtcaacctcgtgaagatc 474
          || |||||||| |||||||| |||||||    |    | |||      | ||| |
Db    536 ccacctcctccctacgaaccacactgtgagtgatgtgccaagtggcagcagacc 589
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RESULT   3
US-08-722-001-7
; Sequence 7, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1601 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-7
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  Query Match             2.9%;  Score 36.4;  DB 1;  Length 1601;
  Best Local Similarity   52.7%;  Pred. No. 0.24;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
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Db   1107 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1166

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||         |  |  |
Db   1167 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1226

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
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Db   1227 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1256
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US-08-722-001-26
; Sequence 26, Application US/08722001
; Patent No. 5760054
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;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1987 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-26


  Query Match             2.9%;  Score 36.4;  DB 1;  Length 1987;
  Best Local Similarity   52.7%;  Pred. No. 0.27;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy     474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
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Db    1112 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1171

Qy     534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    1172 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1231

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
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Db    1232 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1261


RESULT   5
US-08-722-001-27
; Sequence 27, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1997 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-27


  Query Match             2.9%;  Score 36.4;  DB 1;  Length 1997;
  Best Local Similarity   52.7%;  Pred. No. 0.27;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

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Qy     534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    1166 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1225

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
           ||  ||||     ||| ||   ||   |||
Db    1226 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1255


RESULT   6
US-08-722-001-11
; Sequence 11, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
```

```
;       STREET:  126 Lincoln Avenue
;       CITY:  Rahway
;       STATE:  New Jersey
;       COUNTRY:  United States of America
;       ZIP:  07065
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/722,001
;       FILING DATE:
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/229,276
;       FILING DATE:  14-APR-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Appollina, Mary A.
;       REGISTRATION NUMBER:  34,087
;       REFERENCE/DOCKET NUMBER:  19169Y
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (908)594-3462
;       TELEFAX:  (908)594-4720
;       TELEX:  138825
;   INFORMATION FOR SEQ ID NO:  11:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  2004 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  both
;       TOPOLOGY:  both
;     MOLECULE TYPE:  cDNA
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
US-08-722-001-11


  Query Match             2.9%;  Score 36.4;  DB 1;  Length 2004;
  Best Local Similarity   52.7%;  Pred. No. 0.27;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
          || |  |  | ||  | |||      ||  || || ||    |||  ||| |   |||||
Db   1107 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1166

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||          |  |  |
Db   1167 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1226

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
          ||  ||||     ||| ||   ||   |||
Db   1227 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1256


RESULT   7
US-08-424-424B-1
; Sequence 1, Application US/08424424B
; Patent No. 5759854
;  GENERAL INFORMATION:
;    APPLICANT:  LI, ET AL.
;    TITLE OF INVENTION:  Neurotransmitter Transporter
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,424B
;      FILING DATE:  APRIL 21, 1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05363
;      FILING DATE:  MAY 25, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MULLINS, J.G.
;      REGISTRATION NUMBER:  33,073
;      REFERENCE/DOCKET NUMBER:  325800-308
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2485 BASE PAIRS
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  SINGLE
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  cDNA
US-08-424-424B-1


  Query Match             2.9%;  Score 36.2;  DB 1;  Length 2485;
  Best Local Similarity   56.2%;  Pred. No. 0.36;
  Matches   68;  Conservative    0;  Mismatches   53;  Indels    0;  Gaps    0;

Qy    453 caaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcgctggc 512
          ||   ||| ||   ||  | || || || |||||| |||| |  ||  || || |  |||
Db   2023 CAGCATCATCCAGCTGGGGGTCACGCCCCCGGCCTACAGCGCCTGGATCAAGGAGGAGGC 2082

Qy    513 tgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatcctctgtgtcat 572
          |||||    || |     | |  ||| |   |   |||| || || |||  |    || |
Db   2083 TGCCGAGCGCTACCTGTATTTCCCCAACTGGCCCATGGCACTCCTGATCACCCTCATCGT 2142

Qy    573 c 573
          |
Db   2143 C 2143


RESULT   8
PCT-US94-05363A-1
; Sequence 1, Application PC/TUS9405363A
;  GENERAL INFORMATION:
;    APPLICANT:  LI, ET AL.
;    TITLE OF INVENTION:  Neurotransmitter Transporter
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05363A
;      FILING DATE:  SUBMITTED HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  FERRARO, GREGORY D.
;      REGISTRATION NUMBER:  36,134
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;      REFERENCE/DOCKET NUMBER:  325800-118
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2486 BASE PAIRS
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  SINGLE
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  cDNA
PCT-US94-05363A-1


  Query Match             2.9%;  Score 36.2;  DB 5;  Length 2486;
  Best Local Similarity   56.2%;  Pred. No. 0.36;
  Matches   68;  Conservative    0;  Mismatches   53;  Indels    0;  Gaps    0;

Qy     453 caaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcgctggc 512
           ||   ||| ||   ||  | || || || |||||| |||| |  ||  || || |  |||
Db    2024 CAGCATCATCCAGCTGGGGGTCACGCCCCCGGCCTACAGCGCCTGGATCAAGGAGGAGGC 2083

Qy     513 tgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatcctctgtgtcat 572
           |||||    || |     | |  ||| |   |   |||| || || |||  |    || |
Db    2084 TGCCGAGCGCTACCTGTATTTCCCCAACTGGCCCATGGCACTCCTGATCACCCTCATCGT 2143

Qy     573 c 573
           |
Db    2144 C 2144


RESULT   9
US-09-103-875-2/c
; Sequence 2, Application US/09103875A
; Patent No. 6221849
; GENERAL INFORMATION:
;  APPLICANT: Szyf, Moshe
;  APPLICANT: Bigey, Pascal
;  APPLICANT: Ramchandani, Shyam
;  TITLE OF INVENTION: DNA METHYLTRANSFERASE GENOMIC SEQUENCES AND ANTISENSE
;  TITLE OF INVENTION: OLIGONUCLEOTIDES
;  FILE REFERENCE: 106101.194
;  CURRENT APPLICATION NUMBER: US/09/103,875A
;  CURRENT FILING DATE: 1998-06-24
;  EARLIER APPLICATION NUMBER: 60/069,865
;  EARLIER FILING DATE: 1997-12-17
;  EARLIER APPLICATION NUMBER: 08/866,340
;  EARLIER FILING DATE: 1997-05-30
;  NUMBER OF SEQ ID NOS: 138
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 4136
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-103-875-2


  Query Match             2.8%;  Score 36;  DB 4;  Length 4136;
  Best Local Similarity   49.5%;  Pred. No. 0.56;
  Matches   93;  Conservative    0;  Mismatches   95;  Indels    0;  Gaps    0;

Qy     689 cccacagagcctgctgccagtgccgccgtgactcagtgcagacctgcgggccggtgcgct 748
           |||||  |||   ||||| || || | | |   || |   ||   ||  |    |||
Db    3917 CCCACCCAGCGCCCTGCCTGTCCCCCTGAGTCCGTGTTCCCCCCCATGGTACCTACCGCC 3858

Qy     749 tgctcccatccatgtgctgtgaggaggcctgcagccccaacccggcgactcttggttgtg 808
           |||   ||||   | || | |||  |||| | |   |||    ||  || |  | | | |
Db    3857 TGCGGACATCGTCGGGCAGCGAGATGGCCGGGACGGCCAGTGTGGGCACCCGGGCTGGGG 3798

Qy     809 gggtgcattctgcagccagtcttcaggcaagaaacgcaggcccagccggggagatggtgc 868
           |||  |   |  |     |          ||  | |||| |   | || | | ||  |   |
Db    3797 CGGTACGCGCCGGCATCTCGGAGGCTTCAGCAGACGCGGCGGCGGCAGCGCAGGCGCCCC 3738

Qy     869 cgactttc 876
           |  ||||
Db    3737 GGCTTTTC 3730


RESULT  10
US-09-372-934-3
; Sequence 3, Application US/09372934
; Patent No. 6248579
; GENERAL INFORMATION:
;  APPLICANT: Stutzman-Engwall, Kim J.
;  APPLICANT: McArthur, Hamish
;  APPLICANT: Katoh, Yoshihiro
;  TITLE OF INVENTION: STREPTOMYCES AVERMITILIS GENE DIRECTING THE RATIO OF
;  TITLE OF INVENTION: B2:B1 AVERMECTINS
;  FILE REFERENCE: PC10649
;  CURRENT APPLICATION NUMBER: US/09/372,934
;  CURRENT FILING DATE: 1999-08-12
;  EARLIER APPLICATION NUMBER: 60/074,636
;  EARLIER FILING DATE: 1998-02-13
;  EARLIER APPLICATION NUMBER: PCT/IB99/00130
;  EARLIER FILING DATE: 1999-01-25
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 1150
;   TYPE: DNA
;   ORGANISM: Streptomyces hygroscopicus
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (58)..(990)
US-09-372-934-3


  Query Match             2.8%;  Score 35.6;  DB 4;  Length 1150;
  Best Local Similarity   57.0%;  Pred. No. 0.35;
  Matches   65;  Conservative    0;  Mismatches   49;  Indels    0;  Gaps    0;

Qy     448 gccagcaaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcg 507
           |||  ||  | | ||| | |  |||  ||||||  |||||    ||    ||||| ||| |
Db     142 gccgacagcggctaccgcatcgagaaggcgtccccggccaggggcggtggggactcggag 201

Qy     508 ctggctgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatc 561
           | |   |||| | |    | | | |||    ||||  ||   ||  || || ||
Db     202 cggatcgccgatgtgctgatcccgctgctgtccgtggtgggagcggtggtcctc 255


RESULT  11
US-08-334-698-5
; Sequence 5, Application US/08334698
; Patent No. 5556753
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM
;      STREET:  30 Rockefeller Plaza
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10112
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/334,698
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
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;       APPLICATION NUMBER:  US/07/952,798
;       FILING DATE:
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  White, John P.
;       REGISTRATION NUMBER:  28,678
;       REFERENCE/DOCKET NUMBER:  37690I
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212) 977-9550
;       TELEFAX:  (212) 664-0525
;       TELEX:  (212) 422523 COOP UI
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1639 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  unknown
;     MOLECULE TYPE:  DNA (genomic)
;     HYPOTHETICAL:  N
;     ANTI-SENSE:  N
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  126..1523
;       OTHER INFORMATION:
US-08-334-698-5


  Query Match             2.7%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
          || |  |  | ||  | |||      ||  || || ||    |||  ||| |   || ||
Db    635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
          ||  ||||     ||| ||   ||   |||
Db    755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  12
US-08-228-932-5
; Sequence 5, Application US/08228932
; Patent No. 5578611
;  GENERAL INFORMATION:
;    APPLICANT:  Charles Gluchowski, Carlos C. Forray, George Chiu,
;    APPLICANT:  Theresa A. Branchek, John M. Wetzel and Paul R. Hartig
;    TITLE OF INVENTION:  USE OF ALPHA-1C SPECIFIC COMPOUNDS TO TREAT BENIGN
;    TITLE OF INVENTION:  PROSTATIC HYPERPLASIA
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM
;      STREET:  30 Rockefeller Plaza
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10112
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/228,932
;      FILING DATE:  13-APR-1994
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41878-B/JPW/TEP
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 977-9550
;      TELEFAX:  (212) 664-0525
;      TELEX:  (212) 422523 COOP UI
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-228-932-5


  Query Match             2.7%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
          || |  |  | ||  | |||      ||  || || ||    |||  ||| |   || ||
Db    635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
          ||  ||||     ||| ||   ||   |||
Db    755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  13
US-08-468-939-5
; Sequence 5, Application US/08468939
; Patent No. 5714381
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/468,939
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41337-1B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0526
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
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;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-468-939-5


  Query Match             2.7%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
          || |  |  | ||  | |||      ||  || || ||    ||| ||| |   || ||
Db    635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||         |  |  |
Db    695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
          ||  ||||     ||| ||   ||   |||
Db    755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  14
US-08-406-855A-5
; Sequence 5, Application US/08406855A
; Patent No. 5861309
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,855A
;      FILING DATE:  21-AUG-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41337-A-PCT-US/JPW/KDB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0526
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-406-855A-5


  Query Match             2.7%;  Score 34.8;  DB 2;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
          || |  |  | ||  | |||      ||  || || ||    ||| ||| |   || ||
Db    635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||         |  |  |
Db    695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
          ||  ||||     ||| ||   ||   |||
Db    755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  15
US-08-722-190-5
; Sequence 5, Application US/08722190
; Patent No. 5990128
;  GENERAL INFORMATION:
;    APPLICANT:  Charles Gluchowski, Carlos C. Forray, George
;    APPLICANT:  Chiu, Theresa A. Branchek, John M. Wetzel and Paul R. Hartig
;    TITLE OF INVENTION:  USE OF ALPHA-1C SPECIFIC COMPOUNDS TO
;    TITLE OF INVENTION:  TREAT BENIGN PROSTATIC HYPERPLASIA
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,190
;      FILING DATE:  4-APR-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41878-D-PCT/JPW/AGL
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0525
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-722-190-5


  Query Match             2.7%;  Score 34.8;  DB 2;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
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Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

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Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
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Db    635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
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Db    755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784
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Search completed: April 11, 2002, 00:22:56
Job time: 10243 sec

GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: April 11, 2002, 00:22:56 ; Search time 107.54 Seconds
(without alignments)
3588.604 Million cell updates/sec

Title: US-09-380-276A-2
Perfect score: 1704
Sequence: 1 gggaacgtagaactctccaa.....gacccagagtatacttttttc 1704

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 113238999 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	447.2	26.2	893	4	US-09-286-529-8	Sequence 8, Appli
	2	326.6	19.2	623	4	US-09-286-529-9	Sequence 9, Appli
	3	36.4	2.1	1601	1	US-08-722-001-7	Sequence 7, Appli
	4	36.4	2.1	1987	1	US-08-722-001-26	Sequence 26, Appl
	5	36.4	2.1	1997	1	US-08-722-001-27	Sequence 27, Appl
	6	36.4	2.1	2004	1	US-08-722-001-11	Sequence 11, Appl
	7	36.2	2.1	2485	1	US-08-424-424B-1	Sequence 1, Appli
	8	36.2	2.1	2486	5	PCT-US94-05363A-1	Sequence 1, Appli
c	9	36	2.1	4136	4	US-09-103-875-2	Sequence 2, Appli
	10	35.6	2.1	1150	4	US-09-372-934-3	Sequence 3, Appli
c	11	35.4	2.1	7218	1	US-08-232-463-14	Sequence 14, Appl
	12	34.8	2.0	1639	1	US-08-334-698-5	Sequence 5, Appli
	13	34.8	2.0	1639	1	US-08-228-932-5	Sequence 5, Appli
	14	34.8	2.0	1639	1	US-08-468-939-5	Sequence 5, Appli
	15	34.8	2.0	1639	2	US-08-406-855A-5	Sequence 5, Appli
	16	34.8	2.0	1639	2	US-08-722-190-5	Sequence 5, Appli
	17	34.8	2.0	1639	3	US-08-244-354-5	Sequence 5, Appli
	18	34.8	2.0	1639	3	US-09-206-899-5	Sequence 5, Appli
	19	34.8	2.0	1639	5	PCT-US95-04203-5	Sequence 5, Appli
	20	34.6	2.0	5962	6	5386025-5	Patent No. 5386025
c	21	33.6	2.0	800	2	US-08-416-603-11	Sequence 11, Appl
	22	33.4	2.0	4360	1	US-08-470-350B-1	Sequence 1, Appli
c	23	33	1.9	9472	1	US-08-325-547-9	Sequence 9, Appli
	24	32.8	1.9	2230	1	US-08-200-512-1	Sequence 1, Appli
	25	32.6	1.9	1593	2	US-08-524-828-2	Sequence 2, Appli
	26	32.6	1.9	1593	2	US-08-975-114A-2	Sequence 2, Appli
	27	32.6	1.9	1593	3	US-08-849-281A-2	Sequence 2, Appli
	28	32.6	1.9	2247	2	US-08-524-828-1	Sequence 1, Appli
	29	32.6	1.9	2247	2	US-08-975-114A-1	Sequence 1, Appli
c	30	32.6	1.9	3891	1	US-08-480-604A-27	Sequence 27, Appl
c	31	32.6	1.9	3891	2	US-08-405-496A-27	Sequence 27, Appl
c	32	32.6	1.9	3891	4	US-08-915-136-27	Sequence 27, Appl
	33	32.4	1.9	1167	1	US-07-960-985-1	Sequence 1, Appli
	34	32.4	1.9	1167	2	US-08-496-671-1	Sequence 1, Appli
	35	32.4	1.9	1280	4	US-09-096-776B-4	Sequence 4, Appli
	36	32.4	1.9	1491	4	US-09-082-092-9	Sequence 9, Appli
	37	32.4	1.9	1524	4	US-08-840-767-3	Sequence 3, Appli
c	38	32.4	1.9	1690	2	US-08-461-812-3	Sequence 3, Appli
	39	32.4	1.9	3083	2	US-08-480-994-36	Sequence 36, Appl
	40	32.4	1.9	3083	2	US-08-616-844-36	Sequence 36, Appl
	41	32.4	1.9	3083	2	US-08-599-654-36	Sequence 36, Appl
	42	32.4	1.9	3083	2	US-08-485-573-36	Sequence 36, Appl
	43	32.4	1.9	3083	3	US-08-944-868A-36	Sequence 36, Appl
	44	32.4	1.9	3083	3	US-08-944-423A-36	Sequence 36, Appl
	45	32.4	1.9	3083	3	US-08-925-743-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-09-286-529-8
; Sequence 8, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 893
; TYPE: DNA
; ORGANISM: human
US-09-286-529-8

Query Match 26.2%; Score 447.2; DB 4; Length 893;
Best Local Similarity 81.6%; Pred. No. 1.4e-127;
Matches 529; Conservative 0; Mismatches 118; Indels 1; Gaps 1;

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Qy     22 aataaatacatttgataagaaagatggctttaaaagtgctactagaacaagagaaaacgt 81
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Db     32 aataaacacgtttggtgagagccatggcactcaaggtcctacctctacacaggacggtgc 91

Qy     82 ttttcactcttttagtattactaggctatttgtcatgtaaagtgacttgtgaaacaggag 141
          | ||| ||    |  | || |||  | |  || ||||||||||| ||| ||||| ||||
Db     92 tcttcgctgccattctcttcctactccacctggcatgtaaagtgagttgcgaaaccggag 151

Qy    142 actgtagacagcaagaattcagggatcggtctggaaactgtgttccctgcaaccagtgtg 201
          | || || |||||| ||||||| |||||| |||||||||||||| | |||||| ||||| |
Db    152 attgcaggcagcaggaattcaaggatcgatctggaaactgtgtcctctgcaaacagtgcg 211

Qy    202 ggccaggcatggagttgtctaaggaatgtggcttcggctatggggaggatgcacagtgtg 261
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Db    212 gacctggcatggagttgtccaaggaatgtggcttcggctatggggaggatgcacagtgtg 271

Qy    262 tgacgtgccggctgcacaggttcaaggaggactggggcttccagaaatgcaagccctgtc 321
          || | ||| ||| |||| |||||||||| |||||||| |||||||| || ||||| |||
Db    272 tgccctgcaggccgcaccggttcaaggaagactggggtttccagaagtgtaagccatgtg 331

Qy    322 tggactgcgcagtggtgaaccgctttcagaaggcaaattgttcagccaccagtgatgcca 381
          |||||| ||  |||||||||||||||||| ||| || || || |||  ||||||||||
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Qy    382 tctgcggggactgcttgccaggattttataggaagacgaaacttgtcggctttcaagaca 441
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Qy    442 tggagtgtgtgccttgtggagaccctcctcctccttacgaaccgcactgtgccagcaagg 501
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Db    452 tggagtgtgtgccctgcggagacccacctcctccctacgaaccacactgtaccagcaagg 511

Qy    502 tcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcgctggctgccg 561
          | ||||| ||||||||| | ||||| | ||||||||| |||||||||||| |||||||||
Db    512 tgaaccttgtgaagatctcctccaccgtctccagccctcgggacacggcggtggctgccg 571

Qy    562 ttatctgcagcgctctggccaccgtcctgctggccctgctcatcctctgtgtcatctatt 621
          | |||||||| |||||||||| || ||||| | |||||||||||| ||||||||||| |
Db    572 tcatctgcagtgctctggccacggtgctgctcg-cctgctcatcctgtgtgtcatctact 630

Qy    622 gtaagagacagtttatggagaagaaacccagctggtctctgcggtcac 669
          | ||||| ||||| ||||||||||||||||||||    || |  || |
Db    631 gcaagaggcagttcatggagaagaaacccagctgtaagctcccatccc 678


RESULT   2
US-09-286-529-9
; Sequence 9, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
;  APPLICANT:  Catherine Tribouley
;  TITLE OF INVENTION:  NEW MEMBERS OF TNF AND TNFR FAMILIES
;  FILE REFERENCE:  1408.003/200130.439C1
;  CURRENT APPLICATION NUMBER: US/09/286,529
;  CURRENT FILING DATE:  1999-04-05
;  NUMBER OF SEQ ID NOS:  25
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 623
;   TYPE: DNA
;   ORGANISM: human
US-09-286-529-9


  Query Match             19.2%;  Score 326.6;  DB 4;  Length 623;
  Best Local Similarity   78.2%;  Pred. No. 1.3e-90;
  Matches  392;  Conservative    0;  Mismatches  109;  Indels    0;  Gaps    0;

Qy     18 caacaataaatacatttgataagaaagatggctttaaaagtgctactagaacaagagaaa 77
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Db     89 caggaataaacacgtttggtgagagccatggcactcaaggtcctacctctacacaggacg 148

Qy     78 acgtttttcactcttttagtattactaggctatttgtcatgtaaagtgacttgtgaaaca 137
            | | ||| ||    |  | || |||  | |  || ||||||||||| ||| |||||
Db    149 gtgctcttcgctgccattctcttcctactccacctggcatgtaaagtgagttgcgaaacc 208

Qy    138 ggagactgtagacagcaagaattcagggatcggtctggaaactgtgttccctgcaaccag 197
          |||||| || || |||||| ||||||| |||||| |||||||||||||| | |||||| |||
Db    209 ggagattgcaggcagcaggaattcaaggatcgatctggaaactgtgtcctctgcaaacag 268

Qy    198 tgtgggccaggcatggagttgtctaaggaatgtggcttcggctatggggaggatgcacag 257
          || || || |||||||||||||| ||||||||||||||||||||||||||||||||||||
Db    269 tgcggacctggcatggagttgtccaaggaatgtggcttcggctatggggaggatgcacag 328

Qy    258 tgtgtgacgtgccggctgcacaggttcaaggaggactggggcttccagaaatgcaagccc 317
          |||||| | ||| ||| |||| |||||||||| |||||||| |||||||| || |||||
Db    329 tgtgtgccctgcaggccgcaccggttcaaggaagactgggggtttccagaagtgtaagcca 388

Qy    318 tgtctggactgcgcagtggtgaaccgctttcagaaggcaaattgttcagccaccagtgat 377
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Db    389 tgtgcggactgtgcgctggtgaaccgctttcagagggccaactgctcacacaccagtgat 448

Qy    378 gccatctgcggggactgcttgccaggattttataggaagacgaaacttgtcggctttcaa 437
          ||  |||||||||||||| |||||||||||||  ||||||| ||||| || || ||||||
Db    449 gctgtctgcggggactgcctgccaggattttaccggaagaccaaactggttggttttcaa 508

Qy    438 gacatggagtgtgtgccttgtggagaccctcctcctccttacgaaccgcactgtgccagc 497
          |||||||||||||||| || |||||||| |||||||| |||||||  |
Db    509 gacatggagtgtgtgccctgcggagacccacctcctccctacgaaccacactgtgagtga 568

Qy    498 aaggtcaacctcgtgaagatc 518
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Db    569 tgtgccaagtggcagcagacc 589


RESULT   3
US-08-722-001-7
; Sequence 7, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1601 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-7


  Query Match              2.1%;  Score 36.4;  DB 1;  Length 1601;
  Best Local Similarity   52.7%;  Pred. No. 0.41;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

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Qy    578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
          || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db   1167 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1226

Qy    638 ggagaagaaacccagctggtctctgcggtc 667
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RESULT   4
US-08-722-001-26
; Sequence 26, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1987 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-26


  Query Match             2.1%;  Score 36.4;  DB 1;  Length 1987;
  Best Local Similarity   52.7%;  Pred. No. 0.46;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy     518 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 577
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Db    1112 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1171

Qy     578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    1172 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1231

Qy     638 ggagaagaaacccagctggtctctgcggtc 667
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Db    1232 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1261


RESULT   5
US-08-722-001-27
; Sequence 27, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1997 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-27


  Query Match             2.1%;  Score 36.4;  DB 1;  Length 1997;
  Best Local Similarity   52.7%;  Pred. No. 0.47;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy     518 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 577
           || |  |  | ||  | |||      ||  || || ||    ||| ||| |   |||||
Db    1106 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1165

Qy     578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    1166 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1225

Qy     638 ggagaagaaacccagctggtctctgcggtc 667
           ||  ||||     ||| ||   ||   |||
Db    1226 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1255


RESULT   6
US-08-722-001-11
; Sequence 11, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
```

```
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2004 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-11


  Query Match             2.1%;  Score 36.4;  DB 1;  Length 2004;
  Best Local Similarity   52.7%;  Pred. No. 0.47;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy     518 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 577
           || |  |  | ||  | |||      ||  || || ||    |||  ||| |   |||||
Db    1107 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1166

Qy     578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    1167 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1226

Qy     638 ggagaagaaacccagctggtctctgcggtc 667
           ||  ||||     ||| ||   ||   |||
Db    1227 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1256


RESULT   7
US-08-424-424B-1
; Sequence 1, Application US/08424424B
; Patent No. 5759854
;  GENERAL INFORMATION:
;    APPLICANT:  LI, ET AL.
;    TITLE OF INVENTION:  Neurotransmitter Transporter
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,424B
;      FILING DATE:  APRIL 21, 1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05363
;      FILING DATE:  MAY 25, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MULLINS, J.G.
;      REGISTRATION NUMBER:  33,073
;      REFERENCE/DOCKET NUMBER:  325800-308
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2485 BASE PAIRS
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  SINGLE
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  cDNA
US-08-424-424B-1


  Query Match             2.1%;  Score 36.2;  DB 1;  Length 2485;
  Best Local Similarity   56.2%;  Pred. No. 0.61;
  Matches   68;  Conservative    0;  Mismatches   53;  Indels    0;  Gaps    0;

Qy     497 caaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcgctggc 556
           ||  ||| ||   ||  | || || || ||||||  |||| |  ||  || || |  |||
Db    2023 CAGCATCATCCAGCTGGGGGTCACGCCCCCGGCCTACAGCGCCTGGATCAAGGAGGAGGC 2082

Qy     557 tgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatcctctgtgtcat 616
           |||||    || |     | |  ||| |   |   |||| || || |||  |    || |
Db    2083 TGCCGAGCGCTACCTGTATTTCCCCAACTGGCCCATGGCACTCCTGATCACCCTCATCGT 2142

Qy     617 c 617
           |
Db    2143 C 2143


RESULT   8
PCT-US94-05363A-1
; Sequence 1, Application PC/TUS9405363A
;  GENERAL INFORMATION:
;    APPLICANT:  LI, ET AL.
;    TITLE OF INVENTION:  Neurotransmitter Transporter
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05363A
;      FILING DATE:  SUBMITTED HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
```

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;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  FERRARO, GREGORY D.
;      REGISTRATION NUMBER:  36,134
;      REFERENCE/DOCKET NUMBER:  325800-118
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2486 BASE PAIRS
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  SINGLE
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  cDNA
PCT-US94-05363A-1


  Query Match             2.1%;  Score 36.2;  DB 5;  Length 2486;
  Best Local Similarity   56.2%;  Pred. No. 0.61;
  Matches   68;  Conservative    0;  Mismatches   53;  Indels    0;  Gaps    0;

Qy    497 caaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcgctggc 556
          ||   ||| ||   ||  | || || || |||||| |||| |  ||  || || |  |||
Db   2024 CAGCATCATCCAGCTGGGGGTCACGCCCCCGGCCTACAGCGCCTGGATCAAGGAGGAGGC 2083

Qy    557 tgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatcctctgtgtcat 616
          |||||    || |     | |  ||| |   |   |||| || || |||  |    || |
Db   2084 TGCCGAGCGCTACCTGTATTTCCCCAACTGGCCCATGGCACTCCTGATCACCCTCATCGT 2143

Qy    617 c 617
          |
Db   2144 C 2144


RESULT   9
US-09-103-875-2/c
; Sequence 2, Application US/09103875A
; Patent No. 6221849
; GENERAL INFORMATION:
;  APPLICANT: Szyf, Moshe
;  APPLICANT: Bigey, Pascal
;  APPLICANT: Ramchandani, Shyam
;  TITLE OF INVENTION: DNA METHYLTRANSFERASE GENOMIC SEQUENCES AND ANTISENSE
;  TITLE OF INVENTION: OLIGONUCLEOTIDES
;  FILE REFERENCE: 106101.194
;  CURRENT APPLICATION NUMBER: US/09/103,875A
;  CURRENT FILING DATE: 1998-06-24
;  EARLIER APPLICATION NUMBER: 60/069,865
;  EARLIER FILING DATE: 1997-12-17
;  EARLIER APPLICATION NUMBER: 08/866,340
;  EARLIER FILING DATE: 1997-05-30
;  NUMBER OF SEQ ID NOS: 138
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 4136
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-103-875-2


  Query Match             2.1%;  Score 36;  DB 4;  Length 4136;
  Best Local Similarity   49.5%;  Pred. No. 0.97;
  Matches   93;  Conservative    0;  Mismatches   95;  Indels    0;  Gaps    0;

Qy    733 cccacagagcctgctgccagtgccgccgtgactcagtgcagacctgcgggccggtgcgct 792
          |||||  |||   ||||| || || | | | |   || |   ||   ||  |    |||
Db   3917 CCCACCCAGCGCCCTGCCTGTCCCCCTGAGTCCGTGTTCCCCCCCATGGTACCTACCGCC 3858

Qy    793 tgctcccatccatgtgctgtgaggaggcctgcagccccaacccggcgactcttggttgtg 852
          |||   ||||   | || | |||  |||| | |   |||    ||  || | | | | |
Db   3857 TGCGGACATCGTCGGGCAGCGAGATGGCCGGGACGGCCAGTGTGGGCACCCGGGCTGGGG 3798

Qy    853 gggtgcattctgcagccagtcttcaggcaagaaacgcaggcccagccggggagatggtgc 912
          |||  |   | |    |          ||  | |||| |   | || | | ||  |   |
Db   3797 CGGTACGCGCCGGCATCTCGGAGGCTTCAGCAGACGCGGCGGCGGCAGCGCAGGCGCCCC 3738

Qy    913 cgactttc 920
          |  ||||
Db   3737 GGCTTTTC 3730


RESULT  10
US-09-372-934-3
; Sequence 3, Application US/09372934
; Patent No. 6248579
; GENERAL INFORMATION:
;  APPLICANT: Stutzman-Engwall, Kim J.
;  APPLICANT: McArthur, Hamish
;  APPLICANT: Katoh, Yoshihiro
;  TITLE OF INVENTION: STREPTOMYCES AVERMITILIS GENE DIRECTING THE RATIO OF
;  TITLE OF INVENTION: B2:B1 AVERMECTINS
;  FILE REFERENCE: PC10649
;  CURRENT APPLICATION NUMBER: US/09/372,934
;  CURRENT FILING DATE: 1999-08-12
;  EARLIER APPLICATION NUMBER: 60/074,636
;  EARLIER FILING DATE: 1998-02-13
;  EARLIER APPLICATION NUMBER: PCT/IB99/00130
;  EARLIER FILING DATE: 1999-01-25
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 1150
;   TYPE: DNA
;   ORGANISM: Streptomyces hygroscopicus
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (58)..(990)
US-09-372-934-3


  Query Match             2.1%;  Score 35.6;  DB 4;  Length 1150;
  Best Local Similarity   57.0%;  Pred. No. 0.58;
  Matches   65;  Conservative    0;  Mismatches   49;  Indels    0;  Gaps    0;

Qy    492 gccagcaaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcg 551
          |||  ||  | | ||| | |  |||  |||||| |||||    ||    ||||| ||| |
Db    142 gccgacagcggctaccgcatcgagaaggcgtccccggccaggggcggtggggactcggag 201

Qy    552 ctggctgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatc 605
          | |   |||| | |    | | | |||    ||||  ||   ||  || || ||
Db    202 cggatcgccgatgtgctgatcccgctgctgtccgtggtgggagcggtggtcctc 255


RESULT  11
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
;  GENERAL INFORMATION:
;    APPLICANT:  DORNER, F.
;    APPLICANT:  SCHEIFLINGER, F.
;    APPLICANT:  FALKNER, F. G.
;    TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
;    NUMBER OF SEQUENCES:  52
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  1800 Diagonal Road, Suite 500
;      CITY:  Alexandria
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  22313-0299
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
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;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/232,463
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/935,313
;      FILING DATE:
;      APPLICATION NUMBER:  EP 91 114 300.6
;      FILING DATE:  26-AUG-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENT, Stephen A.
;      REGISTRATION NUMBER:  29,768
;      REFERENCE/DOCKET NUMBER:  30472/114 IMMU
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)836-9300
;      TELEFAX:  (703)683-4109
;      TELEX:  899149
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  7218 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      CLONE:  pTZgpt-Fls
US-08-232-463-14


  Query Match             2.1%;  Score 35.4;  DB 1;  Length 7218;
  Best Local Similarity   6.4%;  Pred. No. 2.1;
  Matches   27;  Conservative  203;  Mismatches  189;  Indels    0;  Gaps    0;

Qy      11 aactctccaacaataaatacatttgataagaaagatggctttaaaagtgctactagaaca 70
           || |  | | | ||  |   | || |  ||| ||| |  |||   |  :  :  :.::: :
Db    1481 AATTACCTATCTATGCAAGTAGTTAAAGAGATAGAAGAATTTGGTACRRRRRRRRRRRR 1422

Qy      71 agagaaaacgtttttcactcttttagtattactaggctatttgtcatgtaaagtgacttg 130
           :::::::: :       :       :: :  :  :::  :   :  : : :::: ::   :
Db    1421 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1362

Qy     131 tgaaacaggagactgtagacagcaagaattcagggatcggtctggaaactgtgttccctg 190
           :::: ::::::  : ::: :: :::::   :::::  ::   :::::  : :      :
Db    1361 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1302

Qy     191 caaccagtgtgggccaggcatggagttgtctaaggaatgtggcttcggctatggggagga 250
           ::  :: : :::  ::: : ::::  :   :::::: : ::    ::  : ::::::::
Db    1301 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1242

Qy     251 tgcacagtgtgtgacgtgccggctgcacaggttcaaggaggactggggcttccagaaatg 310
           : : :: : : :: : :  ::  : : :::   :::::::  ::::     :::: :
Db    1241 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1182

Qy     311 caagccctgtctggactgcgcagtggtgaaccgctttcagaaggcaaattgttcagccac 370
           :::    :  :::  : : :: :: :::  :    :::::: :::  :   ::  :
Db    1181 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1122

Qy     371 cagtgatgccatctgcggggactgcttgccaggattttataggaagacgaaacttgtcg 429
           :: :: :  :   : :::::  :   :  ::::    : ::::::: ::::    |||
Db    1121 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRATCG 1063


RESULT  12
US-08-334-698-5
; Sequence 5, Application US/08334698
; Patent No. 5556753
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM
;      STREET:  30 Rockefeller Plaza
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10112
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/334,698
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/952,798
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  37690I
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 977-9550
;      TELEFAX:  (212) 664-0525
;      TELEX:  (212) 422523 COOP UI
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-334-698-5


  Query Match             2.0%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 1.3;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy     518 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 577
           || |  |  | ||  | |||      ||  || || ||    |||  ||| |   || ||
Db     635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy     578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db     695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy     638 ggagaagaaacccagctggtctctgcggtc 667
           ||  ||||     ||| ||   ||   |||
Db     755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  13
US-08-228-932-5
; Sequence 5, Application US/08228932
; Patent No. 5578611
;  GENERAL INFORMATION:
;    APPLICANT:  Charles Gluchowski, Carlos C. Forray, George Chiu,
;    APPLICANT:  Theresa A. Branchek, John M. Wetzel and Paul R. Hartig
;    TITLE OF INVENTION:  USE OF ALPHA-1C SPECIFIC COMPOUNDS TO TREAT BENIGN
;    TITLE OF INVENTION:  PROSTATIC HYPERPLASIA
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM
;      STREET:  30 Rockefeller Plaza
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
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;      ZIP:  10112
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/228,932
;      FILING DATE:  13-APR-1994
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41878-B/JPW/TEP
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 977-9550
;      TELEFAX:  (212) 664-0525
;      TELEX:  (212) 422523 COOP UI
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-228-932-5


  Query Match             2.0%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 1.3;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy     518 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 577
           || |  |  | ||  | |||       ||  || || ||    |||  ||| |   || ||
Db     635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy     578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db     695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy     638 ggagaagaaacccagctggtctctgcggtc 667
           ||  ||||     ||| ||   ||   |||
Db     755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  14
US-08-468-939-5
; Sequence 5, Application US/08468939
; Patent No. 5714381
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/468,939
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41337-1B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0526
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-468-939-5


  Query Match             2.0%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 1.3;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy     518 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 577
           || |  |  | ||  | |||       ||  || || ||    |||  ||| |   || ||
Db     635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy     578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db     695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy     638 ggagaagaaacccagctggtctctgcggtc 667
           ||  ||||     ||| ||   ||   |||
Db     755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  15
US-08-406-855A-5
; Sequence 5, Application US/08406855A
; Patent No. 5861309
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,855A
;      FILING DATE:  21-AUG-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41337-A-PCT-US/JPW/KDB
;    TELECOMMUNICATION INFORMATION:
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;       TELEPHONE:  (212) 278-0400
;       TELEFAX:  (212) 391-0526
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1639 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  unknown
;     MOLECULE TYPE:  DNA (genomic)
;     HYPOTHETICAL:  N
;     ANTI-SENSE:  N
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  126..1523
;       OTHER INFORMATION:
US-08-406-855A-5


  Query Match             2.0%;  Score 34.8;  DB 2;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 1.3;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy     518 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 577
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Db     635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy     578 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 637
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db     695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy     638 ggagaagaaacccagctggtctctgcggtc 667
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Db     755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


Search completed: April 11, 2002, 00:23:10
Job time: 10257 sec
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GenCore version 4.5

OM protein - protein search, using sw model

Run on: April 10, 2002, 17:14:57 ; Search time 21.63 Seconds
(without alignments)
433.836 Million cell updates/sec

Title: US-09-380-276A-4
Perfect score: 2255
Sequence: 1 MALKVLLEQEKTFFTLLVLL.....LDQESGAIIHPATQTSLQEA 417

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	869	38.5	210	4	US-09-286-529-3	Sequence 3, Appli
2	714.5	31.7	151	4	US-09-286-529-4	Sequence 4, Appli
3	159	7.1	438	1	US-08-097-827-11	Sequence 11, Appl
4	159	7.1	438	1	US-08-494-574-11	Sequence 11, Appl
5	150	6.7	206	1	US-08-097-827-7	Sequence 7, Appli
6	150	6.7	206	1	US-08-494-574-7	Sequence 7, Appli
7	145	6.4	205	3	US-08-974-022-51	Sequence 51, Appl
8	145	6.4	205	4	US-08-795-445A-51	Sequence 51, Appl
9	145	6.4	205	4	US-08-795-447A-51	Sequence 51, Appl
10	145	6.4	205	4	US-08-974-186-51	Sequence 51, Appl
11	145	6.4	205	4	US-08-795-446B-51	Sequence 51, Appl
12	144	6.4	1104	2	US-08-327-832-5	Sequence 5, Appli
13	144	6.4	1104	2	US-08-828-584-5	Sequence 5, Appli
14	136	6.0	625	3	US-08-996-139-15	Sequence 15, Appl
15	136	6.0	625	4	US-08-995-659-15	Sequence 15, Appl
16	136	6.0	625	4	US-09-215-649A-15	Sequence 15, Appl
17	134.5	6.0	415	4	US-09-006-353A-6	Sequence 6, Appli
18	134	5.9	186	1	US-08-089-458B-6	Sequence 6, Appli
19	134	5.9	307	4	US-08-804-166-4	Sequence 4, Appli
20	134	5.9	307	4	US-08-910-991-4	Sequence 4, Appli
21	133.5	5.9	2050	2	US-08-347-594A-2	Sequence 2, Appli
22	132.5	5.9	197	2	US-08-505-606-1	Sequence 1, Appli
23	132	5.9	276	4	US-09-041-886-27	Sequence 27, Appl
24	132	5.9	277	4	US-09-042-785A-10	Sequence 10, Appl
25	132	5.9	277	4	US-09-006-353A-10	Sequence 10, Appl
26	131	5.8	139	2	US-08-219-237B-8	Sequence 8, Appli
27	131	5.8	176	4	US-09-411-722-1	Sequence 1, Appli
28	130.5	5.8	140	4	US-08-477-347-17	Sequence 17, Appl
29	130.5	5.8	140	4	US-08-476-862-8	Sequence 8, Appli
30	129.5	5.7	336	4	US-08-804-166-8	Sequence 8, Appli
31	129.5	5.7	336	4	US-08-910-991-8	Sequence 8, Appli
32	129	5.7	326	1	US-08-292-549-4	Sequence 4, Appli
33	129	5.7	326	5	PCT-US91-02207-4	Sequence 4, Appli
34	128.5	5.7	1170	1	US-08-313-288B-20	Sequence 20, Appl
35	128	5.7	355	1	US-08-292-549-6	Sequence 6, Appli
36	128	5.7	355	4	US-09-006-353A-14	Sequence 14, Appl
37	127	5.6	419	4	US-08-509-024-7	Sequence 7, Appli
38	127	5.6	419	4	US-09-333-279-7	Sequence 7, Appli
39	126	5.6	148	4	US-09-411-722-2	Sequence 2, Appli
40	124.5	5.5	1111	1	US-08-317-450B-15	Sequence 15, Appl
41	124.5	5.5	1111	4	US-08-800-593-15	Sequence 15, Appl
42	124.5	5.5	1193	1	US-08-317-450B-13	Sequence 13, Appl
43	124.5	5.5	1193	4	US-08-800-593-13	Sequence 13, Appl
44	124.5	5.5	2813	3	US-08-896-449A-2	Sequence 2, Appli
45	124.5	5.5	2813	3	US-09-132-652-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-286-529-3
; Sequence 3, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 210
; TYPE: PRT
; ORGANISM: human
US-09-286-529-3

Query Match 38.5%; Score 869; DB 4; Length 210;
Best Local Similarity 83.7%; Pred. No. 3.9e-73;
Matches 154; Conservative 11; Mismatches 19; Indels 0; Gaps 0;

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           ||||||       |  :: | :|:|||:||||||||||:||||||| | ||||||||||
Db       1 MALKVLPLHRTVLFAAILFLLHLACKVSCETGDCRQQEFKDRSGNCVLCKQCGPGMELSK 60

Qy      61 ECGFGYGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATSDAICGDCLPG 120
           ||||||||||||| || |||||||||||||| |||:|||||:|||| ||||:|||||||
Db      61 ECGFGYGEDAQCVPCRPHRFKEDWGFQKCKPCADCALVNRFQRANCSHTSDAVCGDCLPG 120

Qy     121 FYRKTKLVGFQDMECVPCGDPPPPYEPHCASKVNLVKIASTASSPRDTALAAVICSALAT 180
           |||||||||||||||||||||||||||||| ||||||||:|| |||||||:||||||||||
Db     121 FYRKTKLVGFQDMECVPCGDPPPPYEPHCTSKVNLVKISSTVSSPRDTAVAAVICSALAT 180

Qy     181 VLLA 184
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Db     181 VLLA 184
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RESULT 2
US-09-286-529-4
; Sequence 4, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05

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;  NUMBER OF SEQ ID NOS:  25
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: human
US-09-286-529-4


  Query Match             31.7%;  Score 714.5;  DB 4;  Length 151;
  Best Local Similarity   82.0%;  Pred. No. 5.5e-59;
  Matches  123;  Conservative    9;  Mismatches   17;  Indels    1;  Gaps    1;

Qy       1 MALKVLLEQEKTFFTLLVLLGYLSCKVTCETGDC-RQQEFRDRSGNCVPCNQCGPGMELS 59
           ||||||       |  :: | :|:|||:|||||| |||||:|||||||  | ||||||||
Db       1 MALKVLPLHRTVLFAAILFLLHLACKVSCETGDCSRQQEFKDRSGNCVLCKQCGPGMELS 60

Qy      60 KECGFGYGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATSDAICGDCLP 119
           ||||||||||||| || |||||||||||||| |||:|||||:|||| ||||:||||||
Db      61 KECGFGYGEDAQCVPCRPHRFKEDWGFQKCKPCADCALVNRFQRANCSHTSDAVCGDCLP 120

Qy     120 GFYRKTKLVGFQDMECVPCGDPPPPYEPHC 149
           |||||||||||||||||||||||||||||
Db     121 GFYRKTKLVGFQDMECVPCGDPPPPYEPHC 150


RESULT   3
US-08-097-827-11
; Sequence 11, Application US/08097827
;   GENERAL INFORMATION:
;        APPLICANT: Baum, Peter
;                   Goodwin, Ray
;                   Fanslow, William
;                   Gayle, Richard
;        TITLE OF INVENTION: Novel Cytokine Which is a Ligand for
;                            OX40
;        NUMBER OF SEQUENCES: 13
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Immunex Corporation
;             STREET: 51 University Street
;             CITY: Seattle
;             STATE: WA
;             COUNTRY: USA
;             ZIP: 98101
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/08/097,827
;             FILING DATE: 23-Jul-1993
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Perkins, Patricia A.
;             REGISTRATION NUMBER: 34,693
;             REFERENCE/DOCKET NUMBER: 2806
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 206-587-0730
;   INFORMATION FOR SEQ ID NO: 11:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 438 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-08-097-827-11


  Query Match             7.1%;  Score 159;  DB 1;  Length 438;
  Best Local Similarity   27.5%;  Pred. No. 9.9e-07;
  Matches   69;  Conservative   31;  Mismatches   93;  Indels   58;  Gaps   18;

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Db       9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy      74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
             |    : |   :  || |  |   :  : | ||: | | :|  | ||   :      ||
Db      62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy     133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
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Db     115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy     180 TVLLALLILCVIYCKRQFMEKKPSW---SLRSQDIQYNGSELSCLDRPQLHEYAHRACCQ 236
           |:|              :  ::|::   :::|  :    |||     | | |   |:|
Db     172 TLL-------------WETQRPTFRPTTVQSTTVWPRTSELP--STPTLVE--PRSC-- 211

Qy     237 CRRDSVQTCGP 247
               |   || |
Db     212 ---DKTHTCPP 219


RESULT   4
US-08-494-574-11
; Sequence 11, Application US/08494574
; Patent No. 5783665
;  GENERAL INFORMATION:
;    APPLICANT:  Baum, Peter
;    APPLICANT:  Goodwin, Ray
;    APPLICANT:  Fanslow, William
;    APPLICANT:  Gayle, Richard
;    TITLE OF INVENTION:  No. 5783665el Cytokine Which is a Ligand for
;    TITLE OF INVENTION:  OX40
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/494,574
;      FILING DATE:  22-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/097,827
;      FILING DATE:  23-JUL-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia A.
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2806
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  206-587-0730
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  438 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-494-574-11


  Query Match             7.1%;  Score 159;  DB 1;  Length 438;
  Best Local Similarity   27.5%;  Pred. No. 9.9e-07;
  Matches   69;  Conservative   31;  Mismatches   93;  Indels   58;  Gaps   18;

Qy      15 TLLVLLGYLSCKVTCETGDCRQQEFRDRSGN-CVPCNQCGPGMELSKECGFGYGEDAQCV 73
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Db      9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy     74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
          |    : |    :  || |  |    :  : | ||: | | :|  | ||   :       ||
Db     62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy    133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
               ::||||  ||  : |     |    |          |   :| || |   | ||
Db    115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy    180 TVLLALLILCVIYCKRQFMEKKPSW---SLRSQDIQYNGSELSCLDRPQLHEYAHRACCQ 236
          |:|             :  ::|::   :::|  :    |||     | | |   |:|
Db    172 TLL-------------WETQRPTFRPTTVQSTTVWPRTSELP--STPTLVE--PRSC-- 211

Qy    237 CRRDSVQTCGP 247
             |   || |
Db    212 ---DKTHTCPP 219


RESULT   5
US-08-097-827-7
; Sequence 7, Application US/08097827
;   GENERAL INFORMATION:
;        APPLICANT: Baum, Peter
;                   Goodwin, Ray
;                   Fanslow, William
;                   Gayle, Richard
;        TITLE OF INVENTION: Novel Cytokine Which is a Ligand for
;                            OX40
;        NUMBER OF SEQUENCES: 13
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Immunex Corporation
;             STREET: 51 University Street
;             CITY: Seattle
;             STATE: WA
;             COUNTRY: USA
;             ZIP: 98101
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/08/097,827
;             FILING DATE: 23-Jul-1993
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Perkins, Patricia A.
;             REGISTRATION NUMBER: 34,693
;             REFERENCE/DOCKET NUMBER: 2806
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 206-587-0730
;   INFORMATION FOR SEQ ID NO: 7:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 206 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-08-097-827-7


  Query Match             6.7%;  Score 150;  DB 1;  Length 206;
  Best Local Similarity   30.1%;  Pred. No. 2.4e-06;
  Matches   55;  Conservative   21;  Mismatches   75;  Indels   32;  Gaps   13;

Qy     15 TLLVLLGYLSCKVTCETGDCRQQEFRDRSGN-CVPCNQCGPGMELSKECGFGYGEDAQCV 73
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Db      9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy     74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
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Db     62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy    133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
               ::||||  ||  : |     |    |          |   :| || |   | ||
Db    115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy    180 TVL 182
          |:|
Db    172 TLL 174


RESULT   6
US-08-494-574-7
; Sequence 7, Application US/08494574
; Patent No. 5783665
;  GENERAL INFORMATION:
;    APPLICANT:  Baum, Peter
;    APPLICANT:  Goodwin, Ray
;    APPLICANT:  Fanslow, William
;    APPLICANT:  Gayle, Richard
;    TITLE OF INVENTION:  No. 5783665el Cytokine Which is a Ligand for
;    TITLE OF INVENTION:  OX40
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/494,574
;      FILING DATE:  22-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/097,827
;      FILING DATE:  23-JUL-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia A.
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2806
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  206-587-0730
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  206 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-494-574-7


  Query Match             6.7%;  Score 150;  DB 1;  Length 206;
  Best Local Similarity   30.1%;  Pred. No. 2.4e-06;
  Matches   55;  Conservative   21;  Mismatches   75;  Indels   32;  Gaps   13;

Qy     15 TLLVLLGYLSCKVTCETGDCRQQEFRDRSGN-CVPCNQCGPGMELSKECGFGYGEDAQCV 73
          | |:||| |:  ||    :| :  :   ||: |  | :| ||  :   |  :  |  |
Db      9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy     74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
          |    : |    :  || |  |    :  : | ||: | | :|  | ||   :       ||
Db     62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy    133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
               ::||||  ||  : |     |    |          |   :| || |   | ||
Db    115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy    180 TVL 182
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          |:|
Db    172 TLL 174


RESULT   7
US-08-974-022-51
; Sequence 51, Application US/08974022
; Patent No. 6015938
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/974,022
;      FILING DATE:  12-DEC-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-974-022-51


  Query Match             6.4%;  Score 145;  DB 3;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
            |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                ::||||  ||  : |     |    |       :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT   8
US-08-795-445A-51
; Sequence 51, Application US/08795445A
; Patent No. 6284485
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,445A
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-445A-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
            |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                ::||||  ||  : |     |    |       :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT   9
US-08-795-447A-51
; Sequence 51, Application US/08795447A
; Patent No. 6284728
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, William J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  Osteoprotegerin
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  One Amgen Center Drive
```

```
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91362-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,447A
;      FILING DATE:
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378D2
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-447A-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: | | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                 ::||||  ||  : |     |    |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT  10
US-08-974-186-51
; Sequence 51, Application US/08974186
; Patent No. 6284740
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/974,186
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-974-186-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: | | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                 ::||||  ||  : |     |    |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT  11
US-08-795-446B-51
; Sequence 51, Application US/08795446B
; Patent No. 6288032
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,446B
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
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;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-446B-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  | | |    : |   :  || | |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                ::|||  ||  : |     |    |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT  12
US-08-327-832-5
; Sequence 5, Application US/08327832
; Patent No. 5840832
;  GENERAL INFORMATION:
;    APPLICANT:  Ono, Santa J.
;    APPLICANT:  Strominger, Jack L.
;    TITLE OF INVENTION:  Transcription Factor Regulating MHC
;    TITLE OF INVENTION:  Expression, cDNA and Genomic Clones Encoding Same and
;    TITLE OF INVENTION:  Retroviral Expression Contructs Thereof
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Banner, Birch, McKie & Beckett
;      STREET:  1001 G Street, N.W.
;      CITY:  Washington, D.C.
;      STATE:  District of Columbia
;      COUNTRY:  U.S.A.
;      ZIP:  20001
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/327,832
;      FILING DATE:
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Posorske, Laurence H.
;      REGISTRATION NUMBER:  34,698
;      REFERENCE/DOCKET NUMBER:  1107.46362
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  20-2 508-9153
;      TELEFAX:  202 508-9299
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1104 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-327-832-5


  Query Match             6.4%;  Score 144;  DB 2;  Length 1104;
  Best Local Similarity   18.8%;  Pred. No. 8.8e-05;
  Matches  110;  Conservative   59;  Mismatches  181;  Indels  236;  Gaps   27;

Qy      24 SCKVTCETGDCRQQEFRDRSGNCVPCNQCGPGMELSKECG-------FGYGEDAQC---- 72
           || : |  |                 ||  |   |  : |||       |      |
Db     440 SCNLLCHPG--------------PCPPCPAFMTKTCECGRTRHTVRCGQAVSVHCSNPC 484

Qy      73 ---VTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATS-DAICGDCLPGFYRKTKLV 128
              : |  |: |     :|:||    ::|  |   | :|| | :||  :      |
Db     485 ENILNCGQHQCAELCHGGQCQPCQ--IILN--QVCYCGSTSRDVLCGTDV------GKSD 534

Qy     129 GFQDMEC-------VPCGD--------PPP-------PYEPHC--ASKVNLVKIASTASS 164
           || |  |       : ||:         | |       |    |    :  | ::    ||
Db     535 GFGDFSCLKTCGKDLKCGNHTCSQVCHPQPCQQCPRLPQLVRCCPCGQTPLSQLLELGSS 594

Qy     165 PRDTALAAV-----IC-SALATVLLALLILC---------------VIYCKRQFMEKK- 201
           | | : |     :|   |    |  : |                 || |:  |  |:
Db     595 SRKTCMDPVPSCGKVCGKPLPCGSLDFIHTCEKLCHEGDCGPVSRTSVISCRCSFRTKEL 654

Qy     202 PSWSLRSQDI---------------QYNGSELSCLDRPQ-------------LH---EYA 230
           |  ||:|:|                 ::  :|: |:|:                ||   |
Db     655 PCTSLKSEDATFMCDKRCNKKRLCGRHKCNEICCVDKEHKCPLNCGRKLRCGLHRCEEPC 714

Qy     231 HRACCQ-CRRDSVQT----CGPVRLLPSMCC--------------------------EE 258
           ||  || | : |       ||   : | : |                          ||
Db     715 HRGNCQTCWQASFDELTCHCGASVIYPPVPCGTRPPECTQTCARVHECDHPVYHSGHSEE 774

Qy     259 ACS---------------------------PNPATLGCGVHSAASL---------- 277
           |                             |  ||| ||:|    |
Db     775 KCPPCTFLTQKWCMGKHEFRSNIPCHLVDISCGLPCSATLPCGMHKCQRLCHKGECLVDE 834

Qy     278 --------------------------------QAR-----NAGPAGEMVPTFFGSLTQSI 300
                                            :|:       |   |||     | |
Db     835 PCKQPCTTPRADCGHPCMAPCHTSSPCPVTACKAKVELQCECGRRKEMVICSEASSTYQR 894

Qy     301 CGEFSDAWPLMQNPMGGDNISFCDSYPELTGEDIHSLNPELESSTSLDSNSSQDLVGGAV 360
           | |  :   :||      :    :| :::|    | :  |      :  :  |
Db     895 IAAISMASKITDMQLGGS----VEISKLITKKEVHQARLECDEECSALERKKR--LAEAF 948

Qy     361 PVQSHSENFTAATDLSRYNNTLVESASTQDALTMRSQLDQESGAII 406
           :   |: |   :  |:::::| | |  :  |   | :::|   ::
Db     949 HISEDSDPFNIRSSGSKFSDSLKEDA--RKDLKFVSDVEKEMETLV 992


RESULT  13
US-08-828-584-5
; Sequence 5, Application US/08828584
; Patent No. 5908762
;  GENERAL INFORMATION:
;    APPLICANT:  Ono, Santa J.
;    APPLICANT:  Strominger, Jack L.
;    TITLE OF INVENTION:  Transcription Factor Regulating MHC
;    TITLE OF INVENTION:  Expression, cDNA and Genomic Clones Encoding Same and
;    TITLE OF INVENTION:  Retroviral Expression Contructs Thereof
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Banner, Birch, McKie & Beckett
;      STREET:  1001 G Street, N.W.
;      CITY:  Washington, D.C.
;      STATE:  District of Columbia
;      COUNTRY:  U.S.A.
;      ZIP:  20001
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/828,584
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Posorske, Laurence H.
```

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;      REGISTRATION NUMBER:  34,698
;      REFERENCE/DOCKET NUMBER:  1107.46362
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  20-2 508-9153
;      TELEFAX:  202 508-9299
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1104 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-828-584-5


  Query Match             6.4%;  Score 144;  DB 2;  Length 1104;
  Best Local Similarity   18.8%;  Pred. No. 8.8e-05;
  Matches  110;  Conservative   59;  Mismatches  181;  Indels  236;  Gaps   27;

Qy      24 SCKVTCETGDCRQQEFRDRSGNCVPCNQCGPGMELSKECG-------FGYGEDAQC---- 72
           || : |  |              ||  |   |  : |||        |      |
Db     440 SCNLLCHPG--------------PCPPCPAFMTKTCECGRTRHTVRCGQAVSVHCSNPC 484

Qy      73 ---VTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATS-DAICGDCLPGFYRKTKLV 128
              : |  |:  |     :|:||    ::|  |   | :|| | :||  :       |
Db     485 ENILNCGQHQCAELCHGGQCQPCQ--IILN--QVCYCGSTSRDVLCGTDV------GKSD 534

Qy     129 GFQDMEC-------VPCGD--------PPP-------PYEPHC--ASKVNLVKIASTASS 164
           || |  |       : ||:        | |       |    |    :  | ::    ||
Db     535 GFGDFSCLKTCGKDLKCGNHTCSQVCHPQPCQQCPRLPQLVRCCPCGQTPLSQLLELGSS 594

Qy     165 PRDTALAAV-----IC-SALATVLLALLILC----------------VIYCKRQFMEKK- 201
           | | :  |     :|  |   |  :  |                  || |:  |  |:
Db     595 SRKTCMDPVPSCGKVCGKPLPCGSLDFIHTCEKLCHEGDCGPVSRTSVISCRCSFRTKEL 654

Qy     202 PSWSLRSQDI---------------QYNGSELSCLDRPQ-------------LH---EYA 230
           |  ||:|:|                 ::  :|: |:|:                ||   |
Db     655 PCTSLKSEDATFMCDKRCNKKRLCGRHKCNEICCVDKEHKCPLNCGRKLRCGLHRCEEPC 714

Qy     231 HRACCQ-CRRDSVQT----CGPVRLLPSMCC---------------------------EE 258
           ||  || | : |       ||   : | : |                           ||
Db     715 HRGNCQTCWQASFDELTCHCGASVIYPPVPCGTRPPECTQTCARVHECDHPVYHSGHSEE 774

Qy     259 ACS-------------------------------PNPATLGCGVHSAASL---------- 277
             |                              |  ||| ||:|    |
Db     775 KCPPCTFLTQKWCMGKHEFRSNIPCHLVDISCGLPCSATLPCGMHKCQRLCHKGECLVDE 834

Qy     278 --------------------------------QAR-----NAGPAGEMVPTFFGSLTQSI 300
                                           :|:       |   |||     | |
Db     835 PCKQPCTTPRADCGHPCMAPCHTSSPCPVTACKAKVELQCECGRRKEMVICSEASSTYQR 894

Qy     301 CGEFSDAWPLMQNPMGGDNISFCDSYPELTGEDIHSLNPELESSTSLDSNSSQDLVGGAV 360
               | |  :    :||      :    :| :::|    | :   |       :  :  |
Db     895 IAAISMASKITDMQLGGS----VEISKLITKKEVHQARLECDEECSALERKKR--LAEAF 948

Qy     361 PVQSHSENFTAATDLSRYNNTLVESASTQDALTMRSQLDQESGAII 406
           :   |: |   :  |:::::| | |  :  |   | :::|   ::
Db     949 HISEDSDPFNIRSSGSKFSDSLKEDA--RKDLKFVSDVEKEMETLV 992


RESULT  14
US-08-996-139-15
; Sequence 15, Application US/08996139
; Patent No. 6017729
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/996,139
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2851-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  15:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  625 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-996-139-15


  Query Match             6.0%;  Score 136;  DB 3;  Length 625;
  Best Local Similarity   22.2%;  Pred. No. 0.00022;
  Matches  102;  Conservative   51;  Mismatches  171;  Indels  136;  Gaps   27;

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Db      18 LCVLL--VPLQVTLQVTPPCTQERHYEHLGRC--CSRCEPGKYLSSKC--TPTSDSVCLP 71

Qy      75 CRLHRFKEDWGFQ-KC---KPC-LDCAVV-----NRFQKANCSAT------SDAIC---- 114
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Db     132 TECAPGFGAQHPLQLNKDTVCTPCLLGFFSDVFSSTDKCKPWTNCTLLGKLEAHQGTTES 191

Qy     149 ---CASKVNLVKIASTASSPRDTALAAVICSALATVLLALLILCVIYCKRQFMEKKPSWS 205
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Qy     206 -LRSQDIQYNGSELSCLDRPQLHEYAHRACC---QCRRDSVQTCGPVRLLPSMCCEEACS 261
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Qy     262 PNPATLGCGVHSAAS--------------LQARNAGPAGEMVPT----------FFGS 295
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Db     297 PEDGAGVCGPVCAAGGPWAEVRDSRTFTLVSEVETQGDLSRKIPTEDEYTDRPSQPSTGS 356

Qy     296 LTQSICGEFSDAWPLMQNPM---GGDNISFC---------------------DSYPELT 330
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RESULT  15
US-08-995-659-15
; Sequence 15, Application US/08995659
; Patent No. 6242213
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Ligand for Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/995,659
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2852-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  15:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  625 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-995-659-15


  Query Match             6.0%;  Score 136;  DB 4;  Length 625;
  Best Local Similarity   22.2%;  Pred. No. 0.00022;
  Matches  102;  Conservative   51;  Mismatches  171;  Indels  136;  Gaps   27;

Qy      16 LLVLLGYLSCKVTCE-TGDCRQQEFRDRSGNCVPCNQCGPGMELSKECGFGYGEDAQCVT 74
           | |||  :  :|| : |  | |:   :  | |  |::| ||  || :|     |: |:
Db      18 LCVLL--VPLQVTLQVTPPCTQERHYEHLGRC--CSRCEPGKYLSSKC--TPTSDSVCLP 71

Qy      75 CRLHRFKEDWGFQ-KC---KPC-LDCAVV-----NRFQKANCSAT------SDAIC---- 114
           |    : : |  : ||   | |    |:|     |      |: |      ||  |
Db      72 CGPDEYLDTWNEEDKCLLHKVCDAGKALVAVDPGNHTAPRRCACTAGYHWNSDCECCRRN 131

Qy     115 GDCLPGFYRKTKLVGFQDMECVPC----------GDPPPPY---------EPH------ 148
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Db     132 TECAPGFGAQHPLQLNKDTVCTPCLLGFFSDVFSSTDKCKPWTNCTLLGKLEAHQGTTES 191

Qy     149 ---CASKVNLVKIASTASSPRDTALAAVICSALATVLLALLILCVIYCKRQFMEKKPSWS 205
               |:| : | :    | :   : :  |:   :: |::| :|  | | |         |:

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Qy     206 -LRSQDIQYNGSELSCLDRPQLHEYAHRACC---QCRRDSVQTCGPVRLLPSMCCEEACS 261
            :       :|:: |  ||          |          : |  : |   |  ||
Db     250 WVNDACSSLSGNKESSGDR----------CAGSHSATSSQQEVCEGILL---MTREEKMV 296

Qy     262 PNPATLGCGVHSAAS--------------LQARNAGPAGEMVPT----------FFGS 295
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Db     297 PEDGAGVCGPVCAAGGPWAEVRDSRTFTLVSEVETQGDLSRKIPTEDEYTDRPSQPSTGS 356

Qy     296 LTQSICGEFSDAWPLMQNPM---GGDNISFC--------------------DSYPELT 330
           |   :  : | : |  | |:     |::| |                      || |
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Qy     331 GEDIHSLNPELESSTSL----DSNSSQDLVG-GAVPVQSH 365
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Search completed: April 10, 2002, 17:16:24
Job time: 87 sec
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GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: April 11, 2002, 00:23:10 ; Search time 107.54 Seconds
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2672.499 Million cell updates/sec

Title: US-09-380-276A-5
Perfect score: 1269
Sequence: 1 atggctttaaaagtgctact.....ggcagcgactgggttccctg 1269

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 113238999 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
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	2	314	24.7	623	4	US-09-286-529-9	Sequence 9, Appli
	3	36.4	2.9	1601	1	US-08-722-001-7	Sequence 7, Appli
	4	36.4	2.9	1987	1	US-08-722-001-26	Sequence 26, Appl
	5	36.4	2.9	1997	1	US-08-722-001-27	Sequence 27, Appl
	6	36.4	2.9	2004	1	US-08-722-001-11	Sequence 11, Appl
	7	36.2	2.9	2485	1	US-08-424-424B-1	Sequence 1, Appli
	8	36.2	2.9	2486	5	PCT-US94-05363A-1	Sequence 1, Appli
c	9	36	2.8	4136	4	US-09-103-875-2	Sequence 2, Appli
	10	35.6	2.8	1150	4	US-09-372-934-3	Sequence 3, Appli
	11	34.8	2.7	1639	1	US-08-334-698-5	Sequence 5, Appli
	12	34.8	2.7	1639	1	US-08-228-932-5	Sequence 5, Appli
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	14	34.8	2.7	1639	2	US-08-406-855A-5	Sequence 5, Appli
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	16	34.8	2.7	1639	3	US-08-244-354-5	Sequence 5, Appli
	17	34.8	2.7	1639	3	US-09-206-899-5	Sequence 5, Appli
	18	34.8	2.7	1639	5	PCT-US95-04203-5	Sequence 5, Appli
	19	34.6	2.7	5962	6	5386025-5	Patent No. 5386025
c	20	34.6	2.7	7218	1	US-08-232-463-14	Sequence 14, Appl
c	21	33.6	2.6	800	2	US-08-416-603-11	Sequence 11, Appl
	22	33.4	2.6	4360	1	US-08-470-350B-1	Sequence 1, Appli
c	23	33	2.6	9472	1	US-08-325-547-9	Sequence 9, Appli
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	25	32.6	2.6	1593	2	US-08-524-828-2	Sequence 2, Appli
	26	32.6	2.6	1593	2	US-08-975-114A-2	Sequence 2, Appli
	27	32.6	2.6	1593	3	US-08-849-281A-2	Sequence 2, Appli
	28	32.6	2.6	2247	2	US-08-524-828-1	Sequence 1, Appli
	29	32.6	2.6	2247	2	US-08-975-114A-1	Sequence 1, Appli
c	30	32.6	2.6	3891	1	US-08-480-604A-27	Sequence 27, Appl
c	31	32.6	2.6	3891	2	US-08-405-496A-27	Sequence 27, Appl
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	33	32.4	2.6	1167	1	US-07-960-985-1	Sequence 1, Appli
	34	32.4	2.6	1167	2	US-08-496-671-1	Sequence 1, Appli
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	36	32.4	2.6	1491	4	US-09-082-092-9	Sequence 9, Appli
	37	32.4	2.6	1524	4	US-08-840-767-3	Sequence 3, Appli
c	38	32.4	2.6	1690	2	US-08-461-812-3	Sequence 3, Appli
	39	32.4	2.6	3083	2	US-08-480-994-36	Sequence 36, Appl
	40	32.4	2.6	3083	2	US-08-616-844-36	Sequence 36, Appl
	41	32.4	2.6	3083	2	US-08-599-654-36	Sequence 36, Appl
	42	32.4	2.6	3083	2	US-08-485-573-36	Sequence 36, Appl
	43	32.4	2.6	3083	3	US-08-944-868A-36	Sequence 36, Appl
	44	32.4	2.6	3083	3	US-08-944-423A-36	Sequence 36, Appl
	45	32.4	2.6	3083	3	US-08-925-743-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-09-286-529-8
; Sequence 8, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 893
; TYPE: DNA
; ORGANISM: human
US-09-286-529-8
;

Query Match 34.3%; Score 435.4; DB 4; Length 893;
Best Local Similarity 82.1%; Pred. No. 1.1e-125;
Matches 513; Conservative 0; Mismatches 111; Indels 1; Gaps 1;

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Qy     61 ggctatttgtcatgtaaagtgacttgtgaaacaggagactgtagacagcaagaattcagg 120
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Qy    121 gatcggtctggaaactgtgttccctgcaaccagtgtgggccaggcatggagttgtctaag 180
          ||||| ||||||||||||||| | |||||| ||||| || || ||||||||||||| |||
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Qy    241 aaggaggactggggcttccagaaatgcaagccctgtctggactgcgcagtggtgaaccgc 300
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Qy    301 tttcagaaggcaaattgttcagccaccagtgatgccatctgcggggactgcttgccagga 360
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Qy    541 gtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttatggagaag 600
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RESULT   2
US-09-286-529-9
; Sequence 9, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
;  APPLICANT:  Catherine Tribouley
;  TITLE OF INVENTION:  NEW MEMBERS OF TNF AND TNFR FAMILIES
;  FILE REFERENCE:  1408.003/200130.439C1
;  CURRENT APPLICATION NUMBER: US/09/286,529
;  CURRENT FILING DATE:  1999-04-05
;  NUMBER OF SEQ ID NOS:  25
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 623
;   TYPE: DNA
;   ORGANISM: human
US-09-286-529-9


  Query Match             24.7%;  Score 314;  DB 4;  Length 623;
  Best Local Similarity   78.9%;  Pred. No. 5.3e-88;
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Qy     61 ggctatttgtcatgtaaagtgacttgtgaaacaggagactgtagacagcaagaattcagg 120
            | |  || |||||||||||| ||| ||||| ||||| || || ||||| ||||||| |
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Qy    121 gatcggtctggaaactgtgttccctgcaaccagtgtgggccaggcatggagttgtctaag 180
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Qy    181 gaatgtggcttcggctatggggaggatgcacagtgtgtgacgtgccggctgcacaggttc 240
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Qy    421 cctcctcctccttacgaaccgcactgtgccagcaaggtcaacctcgtgaagatc 474
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US-08-722-001-7
; Sequence 7, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:.
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1601 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-7


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  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
          || |  |  | ||  | |||      ||  || || ||    |||  ||| |   |||||
Db   1107 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1166

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||         |  |  |
Db   1167 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1226

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
          ||  ||||     ||| ||   ||   |||
Db   1227 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1256


RESULT   4
US-08-722-001-26
; Sequence 26, Application US/08722001
; Patent No. 5760054
```

```
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1987 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-26


  Query Match             2.9%;  Score 36.4;  DB 1;  Length 1987;
  Best Local Similarity   52.7%;  Pred. No. 0.27;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy     474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
           || |  |  | ||  | |||      ||  || || ||    |||  ||| |   |||||
Db    1112 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1171

Qy     534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
           || | || ||   ||| | |||  |||| ||   |||| || ||        |  |  |
Db    1172 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1231

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
           ||  ||||     ||| ||   ||   |||
Db    1232 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1261


RESULT   5
US-08-722-001-27
; Sequence 27, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
;      STREET:  126 Lincoln Avenue
;      CITY:  Rahway
;      STATE:  New Jersey
;      COUNTRY:  United States of America
;      ZIP:  07065
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,001
;      FILING DATE:
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/229,276
;      FILING DATE:  14-APR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Appollina, Mary A.
;      REGISTRATION NUMBER:  34,087
;      REFERENCE/DOCKET NUMBER:  19169Y
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (908)594-3462
;      TELEFAX:  (908)594-4720
;      TELEX:  138825
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1997 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-722-001-27


  Query Match             2.9%;  Score 36.4;  DB 1;  Length 1997;
  Best Local Similarity   52.7%;  Pred. No. 0.27;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy     474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
           || |  |  | ||  | |||      ||  || || ||    |||  ||| |   |||||
Db    1106 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1165

Qy     534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
           || | || ||   ||| | |||  |||| ||   |||| || ||        |  |  |
Db    1166 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1225

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
           ||  ||||     ||| ||   ||   |||
Db    1226 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1255


RESULT   6
US-08-722-001-11
; Sequence 11, Application US/08722001
; Patent No. 5760054
;  GENERAL INFORMATION:
;    APPLICANT:  Thompson, Wayne J.
;    APPLICANT:  Huff, Joel R.
;    APPLICANT:  Nerenberg, Jennie B.
;    APPLICANT:  Lee, Hee-Yoon
;    APPLICANT:  Bell, Ian M.
;    TITLE OF INVENTION:  ALPHA1C ADRENERGIC RECEPTOR ANTAGONISTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merck & Co., Inc.
```

```
;       STREET:  126 Lincoln Avenue
;       CITY:  Rahway
;       STATE:  New Jersey
;       COUNTRY:  United States of America
;       ZIP:  07065
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/722,001
;       FILING DATE:
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/229,276
;       FILING DATE:  14-APR-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Appollina, Mary A.
;       REGISTRATION NUMBER:  34,087
;       REFERENCE/DOCKET NUMBER:  19169Y
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (908)594-3462
;       TELEFAX:  (908)594-4720
;       TELEX:  138825
;   INFORMATION FOR SEQ ID NO:  11:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  2004 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  both
;       TOPOLOGY:  both
;     MOLECULE TYPE:  cDNA
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
US-08-722-001-11


  Query Match             2.9%;  Score 36.4;  DB 1;  Length 2004;
  Best Local Similarity   52.7%;  Pred. No. 0.27;
  Matches   79;  Conservative    0;  Mismatches   71;  Indels    0;  Gaps    0;

Qy     474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
           || |  |  | ||  | |||      ||  || || ||    |||  ||| |   |||||
Db    1107 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCGGCTCT 1166

Qy     534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
           || | || ||   ||| | |||  |||| ||   ||||| || ||         |  |  |
Db    1167 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 1226

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
           ||  ||||     ||| ||   ||   |||
Db    1227 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 1256


RESULT   7
US-08-424-424B-1
; Sequence 1, Application US/08424424B
; Patent No. 5759854
;  GENERAL INFORMATION:
;    APPLICANT:  LI, ET AL.
;    TITLE OF INVENTION:  Neurotransmitter Transporter
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,424B
;      FILING DATE:  APRIL 21, 1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05363
;      FILING DATE:  MAY 25, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MULLINS, J.G.
;      REGISTRATION NUMBER:  33,073
;      REFERENCE/DOCKET NUMBER:  325800-308
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2485 BASE PAIRS
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  SINGLE
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  cDNA
US-08-424-424B-1


  Query Match             2.9%;  Score 36.2;  DB 1;  Length 2485;
  Best Local Similarity   56.2%;  Pred. No. 0.36;
  Matches   68;  Conservative    0;  Mismatches   53;  Indels    0;  Gaps    0;

Qy     453 caaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcgctggc 512
           ||   ||| ||   ||  | || || || |||||| |||| |  ||  || || |  |||
Db    2023 CAGCATCATCCAGCTGGGGGTCACGCCCCCGGCCTACAGCGCCTGGATCAAGGAGGAGGC 2082

Qy     513 tgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatcctctgtgtcat 572
           |||||    || |     | |  ||| |   |   |||| || || |||  |    || |
Db    2083 TGCCGAGCGCTACCTGTATTTCCCCAACTGGCCCATGGCACTCCTGATCACCCTCATCGT 2142

Qy     573 c 573
           |
Db    2143 C 2143


RESULT   8
PCT-US94-05363A-1
; Sequence 1, Application PC/TUS9405363A
;  GENERAL INFORMATION:
;    APPLICANT:  LI, ET AL.
;    TITLE OF INVENTION:  Neurotransmitter Transporter
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05363A
;      FILING DATE:  SUBMITTED HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  FERRARO, GREGORY D.
;      REGISTRATION NUMBER:  36,134
```

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;      REFERENCE/DOCKET NUMBER:  325800-118
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2486 BASE PAIRS
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  SINGLE
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  cDNA
PCT-US94-05363A-1


  Query Match             2.9%;  Score 36.2;  DB 5;  Length 2486;
  Best Local Similarity   56.2%;  Pred. No. 0.36;
  Matches   68;  Conservative    0;  Mismatches   53;  Indels    0;  Gaps    0;

Qy    453 caaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcgctggc 512
          ||   ||| ||   ||  | || || || |||||| |||| |  ||  || || |  |||
Db   2024 CAGCATCATCCAGCTGGGGGTCACGCCCCCGGCCTACAGCGCCTGGATCAAGGAGGAGGC 2083

Qy    513 tgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatcctctgtgtcat 572
          |||||    || |     | |  ||| |   |   |||| || || |||  |    || |
Db   2084 TGCCGAGCGCTACCTGTATTTCCCCAACTGGCCCATGGCACTCCTGATCACCCTCATCGT 2143

Qy    573 c 573
          |
Db   2144 C 2144


RESULT   9
US-09-103-875-2/c
; Sequence 2, Application US/09103875A
; Patent No. 6221849
; GENERAL INFORMATION:
;  APPLICANT: Szyf, Moshe
;  APPLICANT: Bigey, Pascal
;  APPLICANT: Ramchandani, Shyam
;  TITLE OF INVENTION: DNA METHYLTRANSFERASE GENOMIC SEQUENCES AND ANTISENSE
;  TITLE OF INVENTION: OLIGONUCLEOTIDES
;  FILE REFERENCE: 106101.194
;  CURRENT APPLICATION NUMBER: US/09/103,875A
;  CURRENT FILING DATE: 1998-06-24
;  EARLIER APPLICATION NUMBER: 60/069,865
;  EARLIER FILING DATE: 1997-12-17
;  EARLIER APPLICATION NUMBER: 08/866,340
;  EARLIER FILING DATE: 1997-05-30
;  NUMBER OF SEQ ID NOS: 138
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 4136
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-103-875-2


  Query Match             2.8%;  Score 36;  DB 4;  Length 4136;
  Best Local Similarity   49.5%;  Pred. No. 0.56;
  Matches   93;  Conservative    0;  Mismatches   95;  Indels    0;  Gaps    0;

Qy    689 cccacagagcctgctgccagtgccgccgtgactcagtgcagacctgcgggccggtgcgct 748
          |||||  |||   ||||| || || | | | |   || |   ||   ||  |    |||
Db   3917 CCCACCCAGCGCCCTGCCTGTCCCCCTGAGTCCGTGTTCCCCCCCATGGTACCTACCGCC 3858

Qy    749 tgctcccatccatgtgctgtgaggaggcctgcagccccaacccggcgactcttggttgtg 808
          |||   ||||   | || | |||  |||| | |   |||    ||  || |  | | | |
Db   3857 TGCGGACATCGTCGGGCAGCGAGATGGCCGGGACGGCCAGTGTGGGCACCCGGGCTGGGG 3798

Qy    809 gggtgcattctgcagccagtcttcaggcaagaaacgcaggcccagccggggagatggtgc 868
          ||| |   | |     |          ||  | |||| |   | || | | ||  |   |
Db   3797 CGGTACGCGCCGGCATCTCGGAGGCTTCAGCAGACGCGGCGGCGGCAGCGCAGGCGCCCC 3738

Qy    869 cgactttc 876
            |  ||||
Db   3737 GGCTTTTC 3730


RESULT  10
US-09-372-934-3
; Sequence 3, Application US/09372934
; Patent No. 6248579
; GENERAL INFORMATION:
;  APPLICANT: Stutzman-Engwall, Kim J.
;  APPLICANT: McArthur, Hamish
;  APPLICANT: Katoh, Yoshihiro
;  TITLE OF INVENTION: STREPTOMYCES AVERMITILIS GENE DIRECTING THE RATIO OF
;  TITLE OF INVENTION: B2:B1 AVERMECTINS
;  FILE REFERENCE: PC10649
;  CURRENT APPLICATION NUMBER: US/09/372,934
;  CURRENT FILING DATE: 1999-08-12
;  EARLIER APPLICATION NUMBER: 60/074,636
;  EARLIER FILING DATE: 1998-02-13
;  EARLIER APPLICATION NUMBER: PCT/IB99/00130
;  EARLIER FILING DATE: 1999-01-25
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 1150
;   TYPE: DNA
;   ORGANISM: Streptomyces hygroscopicus
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (58)..(990)
US-09-372-934-3


  Query Match             2.8%;  Score 35.6;  DB 4;  Length 1150;
  Best Local Similarity   57.0%;  Pred. No. 0.35;
  Matches   65;  Conservative    0;  Mismatches   49;  Indels    0;  Gaps    0;

Qy    448 gccagcaaggtcaacctcgtgaagatcgcgtccacggcctccagcccacgggacacggcg 507
          |||  ||  | | ||| | |  |||  |||||| |||||    ||    ||||| ||| |
Db    142 gccgacagcggctaccgcatcgagaaggcgtccccggccaggggcggtggggactcggag 201

Qy    508 ctggctgccgttatctgcagcgctctggccaccgtcctgctggccctgctcatc 561
          | |   |||| | |    | | | |||    ||||  ||   ||  || || ||
Db    202 cggatcgccgatgtgctgatcccgctgctgtccgtggtgggagcggtggtcctc 255


RESULT  11
US-08-334-698-5
; Sequence 5, Application US/08334698
; Patent No. 5556753
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM
;      STREET:  30 Rockefeller Plaza
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10112
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/334,698
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
```

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;       APPLICATION NUMBER:  US/07/952,798
;       FILING DATE:
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  White, John P.
;       REGISTRATION NUMBER:  28,678
;       REFERENCE/DOCKET NUMBER:  37690I
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212) 977-9550
;       TELEFAX:  (212) 664-0525
;       TELEX:  (212) 422523 COOP UI
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1639 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  unknown
;     MOLECULE TYPE:  DNA (genomic)
;     HYPOTHETICAL:  N
;     ANTI-SENSE:  N
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  126..1523
;       OTHER INFORMATION:
US-08-334-698-5


  Query Match             2.7%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
          || |  |  | ||  | |||      ||  || || ||    |||  ||| |    || ||
Db    635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
          || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db    695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
          ||  ||||     ||| ||   ||   |||
Db    755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  12
US-08-228-932-5
; Sequence 5, Application US/08228932
; Patent No. 5578611
;  GENERAL INFORMATION:
;    APPLICANT:  Charles Gluchowski, Carlos C. Forray, George Chiu,
;    APPLICANT:  Theresa A. Branchek, John M. Wetzel and Paul R. Hartig
;    TITLE OF INVENTION:  USE OF ALPHA-1C SPECIFIC COMPOUNDS TO TREAT BENIGN
;    TITLE OF INVENTION:  PROSTATIC HYPERPLASIA
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM
;      STREET:  30 Rockefeller Plaza
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10112
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/228,932
;      FILING DATE:  13-APR-1994
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41878-B/JPW/TEP
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 977-9550
;      TELEFAX:  (212) 664-0525
;      TELEX:  (212) 422523 COOP UI
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-228-932-5


  Query Match             2.7%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy    474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
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Db    635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy    534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
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Db    695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy    594 ggagaagaaacccagctggtctctgcggtc 623
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Db    755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  13
US-08-468-939-5
; Sequence 5, Application US/08468939
; Patent No. 5714381
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/468,939
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41337-1B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0526
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
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;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-468-939-5


  Query Match             2.7%;  Score 34.8;  DB 1;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy     474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
           || |  |  | ||  | |||      ||  || || ||    |||  ||| |   || ||
Db     635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

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Db     695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
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Db     755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  14
US-08-406-855A-5
; Sequence 5, Application US/08406855A
; Patent No. 5861309
;  GENERAL INFORMATION:
;    APPLICANT:  Jonathan A. Bard et al.
;    TITLE OF INVENTION:  DNA Encoding Human Alpha 1 Adrenergic
;    TITLE OF INVENTION:  Receptors and Uses Thereof
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,855A
;      FILING DATE:  21-AUG-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41337-A-PCT-US/JPW/KDB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0526
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-406-855A-5


  Query Match             2.7%;  Score 34.8;  DB 2;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
  Matches   78;  Conservative    0;  Mismatches   72;  Indels    0;  Gaps    0;

Qy     474 cgcgtccacggcctccagcccacgggacacggcgctggctgccgttatctgcagcgctct 533
           || |  |  | ||  | |||      ||  || || ||    |||  ||| |   || ||
Db     635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy     534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db     695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
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Db     755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784


RESULT  15
US-08-722-190-5
; Sequence 5, Application US/08722190
; Patent No. 5990128
;  GENERAL INFORMATION:
;    APPLICANT:  Charles Gluchowski, Carlos C. Forray, George
;    APPLICANT:  Chiu, Theresa A. Branchek, John M. Wetzel and Paul R. Hartig
;    TITLE OF INVENTION:  USE OF ALPHA-1C SPECIFIC COMPOUNDS TO
;    TITLE OF INVENTION:  TREAT BENIGN PROSTATIC HYPERPLASIA
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  COOPER & DUNHAM LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/722,190
;      FILING DATE:  4-APR-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  41878-D-PCT/JPW/AGL
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0525
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1639 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  N
;    ANTI-SENSE:  N
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  126..1523
;      OTHER INFORMATION:
US-08-722-190-5


  Query Match             2.7%;  Score 34.8;  DB 2;  Length 1639;
  Best Local Similarity   52.0%;  Pred. No. 0.76;
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Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

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Db     635 CGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTTCTCAGCGCT 694

Qy     534 ggccaccgtcctgctggccctgctcatcctctgtgtcatctattgtaagagacagtttat 593
           || | || ||   ||| | |||  |||| ||   ||||| || ||        |  |  |
Db     695 GGGCTCCTTCTACCTGCCTCTGGCCATCATCCTGGTCATGTACTGCCGCGTCTACGTGGT 754

Qy     594 ggagaagaaacccagctggtctctgcggtc 623
           ||  ||||     ||| ||   ||   |||
Db     755 GGCCAAGAGGGAGAGCCGGGGCCTCAAGTC 784
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Job time: 10265 sec

GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: April 11, 2002, 00:23:18 ; Search time 107.54 Seconds
(without alignments)
3150.559 Million cell updates/sec

Title: US-09-380-276A-7
Perfect score: 1496
Sequence: 1 gggaacgtagaactctccaa.....aaaaaaaaaaaaaaaaaaaa 1496

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 113238999 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	447.2	29.9	893	4	US-09-286-529-8	Sequence 8, Appli
	2	326.6	21.8	623	4	US-09-286-529-9	Sequence 9, Appli
	3	54.8	3.7	1582	3	US-08-545-196B-10	Sequence 10, Appl
	4	54.8	3.7	1582	3	US-08-545-196B-12	Sequence 12, Appl
c	5	54.4	3.6	3138	1	US-07-867-106-4	Sequence 4, Appli
	6	53	3.5	2007	3	US-08-747-221B-36	Sequence 36, Appl
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	8	53	3.5	2007	4	US-09-005-051-36	Sequence 36, Appl
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	11	52.6	3.5	1420	2	US-08-909-965C-3	Sequence 3, Appli
	12	52.6	3.5	3238	4	US-08-123-934A-5	Sequence 5, Appli
	13	52.6	3.5	3238	5	PCT-US94-10080-5	Sequence 5, Appli
	14	52.4	3.5	3581	2	US-08-738-349-1	Sequence 1, Appli
	15	52	3.5	3709	4	US-09-541-782-7	Sequence 7, Appli
	16	51.8	3.5	3437	3	US-08-860-339-17	Sequence 17, Appl
	17	51.6	3.4	1641	1	US-08-300-903A-8	Sequence 8, Appli
	18	51.2	3.4	991	3	US-08-924-747-25	Sequence 25, Appl
	19	51.2	3.4	991	4	US-09-247-373B-25	Sequence 25, Appl
	20	51.2	3.4	991	4	US-09-296-715-25	Sequence 25, Appl
	21	51.2	3.4	1776	3	US-08-655-352-10	Sequence 10, Appl
	22	50.6	3.4	19124	2	US-08-487-826B-13	Sequence 13, Appl
	23	50.2	3.4	3933	1	US-08-199-776-1	Sequence 1, Appli
	24	50.2	3.4	3933	3	US-08-663-731-1	Sequence 1, Appli
	25	50.2	3.4	3933	3	US-08-879-338-1	Sequence 1, Appli
	26	50.2	3.4	3933	5	PCT-US95-02044-1	Sequence 1, Appli
	27	50	3.3	1046	1	US-08-361-467B-4	Sequence 4, Appli
	28	50	3.3	1046	1	US-08-484-332C-4	Sequence 4, Appli
	29	50	3.3	1472	4	US-08-781-420-10	Sequence 10, Appl
c	30	50	3.3	1472	4	US-08-781-420-12	Sequence 12, Appl
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	32	49.8	3.3	8920	4	US-09-150-741-1	Sequence 1, Appli
	33	49.6	3.3	2700	3	US-09-315-861-1	Sequence 1, Appli
	34	49.4	3.3	746	4	US-09-013-810-1	Sequence 1, Appli
	35	49.2	3.3	2887	5	PCT-US96-10521-14	Sequence 14, Appl
	36	49	3.3	5852	1	US-07-867-106-2	Sequence 2, Appli
	37	48.8	3.3	458	1	US-08-524-757-1	Sequence 1, Appli
	38	48.8	3.3	2469	4	US-09-111-730-5	Sequence 5, Appli
c	39	48.6	3.2	1582	3	US-08-545-196B-10	Sequence 10, Appl
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	41	48.6	3.2	2589	4	US-08-569-749-1	Sequence 1, Appli
	42	48.6	3.2	2589	5	PCT-US96-12860-1	Sequence 1, Appli
	43	48.4	3.2	1393	1	US-08-174-467-18	Sequence 18, Appl
	44	48.4	3.2	1393	3	US-08-452-071-18	Sequence 18, Appl
	45	48.4	3.2	1490	2	US-08-553-367A-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-09-286-529-8
; Sequence 8, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 893
; TYPE: DNA
; ORGANISM: human
US-09-286-529-8

Query Match 29.9%; Score 447.2; DB 4; Length 893;
Best Local Similarity 81.6%; Pred. No. 1.5e-101;
Matches 529; Conservative 0; Mismatches 118; Indels 1; Gaps 1;

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Qy     22 aataaatacatttgataagaaagatggctttaaaagtgctactagaacaagagaaaacgt 81
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Db     32 aataaacacgtttggtgagagccatggcactcaaggtcctacctctacacaggacggtgc 91

Qy     82 ttttcactcttttagtattactaggctatttgtcatgtaaagtgacttgtgaaacaggag 141
          | ||| ||    |  | || |||  | |  || ||||||||||| ||| ||||| ||||
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Qy    142 actgtagacagcaagaattcagggatcggtctggaaactgtgttccctgcaaccagtgtg 201
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Db    152 attgcaggcagcaggaattcaaggatcgatctggaaactgtgtcctctgcaaacagtgcg 211

Qy    202 ggccaggcatggagttgtctaaggaatgtggcttcggctatggggaggatgcacagtgtg 261
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Qy    262 tgacgtgccggctgcacaggttcaaggaggactggggcttccagaaatgcaagccctgtc 321
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Db    272 tgccctgcaggccgcaccggttcaaggaagactggggtttccagaagtgtaagccatgtg 331

Qy    322 tggactgcgcagtggtgaaccgctttcagaaggcaaattgttcagccaccagtgatgcca 381
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Qy    382 tctgcggggactgcttgccaggattttataggaagacgaaacttgtcggctttcaagaca 441
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US-09-286-529-9
; Sequence 9, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
;  APPLICANT:  Catherine Tribouley
;  TITLE OF INVENTION:  NEW MEMBERS OF TNF AND TNFR FAMILIES
;  FILE REFERENCE:  1408.003/200130.439C1
;  CURRENT APPLICATION NUMBER: US/09/286,529
;  CURRENT FILING DATE:  1999-04-05
;  NUMBER OF SEQ ID NOS:  25
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 623
;   TYPE: DNA
;   ORGANISM: human
US-09-286-529-9


  Query Match             21.8%;  Score 326.6;  DB 4;  Length 623;
  Best Local Similarity   78.2%;  Pred. No. 8.4e-72;
  Matches  392;  Conservative    0;  Mismatches  109;  Indels    0;  Gaps    0;

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Qy     78 acgtttttcactcttttagtattactaggctatttgtcatgtaaagtgacttgtgaaaca 137
            | | ||| ||    |  | || |||  | |  || ||||||||||| ||| ||||||
Db    149 gtgctcttcgctgccattctcttcctactccacctggcatgtaaagtgagttgcgaaacc 208

Qy    138 ggagactgtagacagcaagaattcagggatcggtctggaaactgtgttccctgcaaccag 197
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Db    209 ggagattgcaggcagcaggaattcaaggatcgatctggaaactgtgtcctctgcaaacag 268

Qy    198 tgtgggccaggcatggagttgtctaaggaatgtggcttcggctatggggaggatgcacag 257
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Qy    258 tgtgtgacgtgccggctgcacaggttcaaggaggactggggcttccagaaatgcaagccc 317
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Qy    318 tgtctggactgcgcagtggtgaaccgctttcagaaggcaaattgttcagccaccagtgat 377
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Qy    378 gccatctgcggggactgcttgccaggattttataggaagacgaaacttgtcggctttcaa 437
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Qy    438 gacatggagtgtgtgccttgtggagaccctcctcctccttacgaaccgcactgtgccagc 497
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Qy    498 aaggtcaacctcgtgaagatc 518
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Db    569 tgtgccaagtggcagcagacc 589


RESULT   3
US-08-545-196B-10
; Sequence 10, Application US/08545196B
; Patent No. 6080577
;  GENERAL INFORMATION:
;    APPLICANT:  MELKI, JUDITH
;    APPLICANT:  MUNNICH, ARNOLD
;    TITLE OF INVENTION:  SURVIVAL MOTOR NEURON (SMN) GENE: A GENE
;    TITLE OF INVENTION:  FOR SPINAL MUSCULAR ATROPHY
;    NUMBER OF SEQUENCES:  65
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BIRCH, STEWART, KOLASCH AND BIRCH, LLP
;      STREET:  PO BOX 747
;      CITY:  FALLS CHURCH
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  22040-0747
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/545,196B
;      FILING DATE:  19-OCT-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  FARACI, C. J.
;      REGISTRATION NUMBER:  32,350
;      REFERENCE/DOCKET NUMBER:  2121-110P
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 205-8000
;      TELEFAX:  (703) 205-8050
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1582 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-545-196B-10


  Query Match             3.7%;  Score 54.8;  DB 3;  Length 1582;
  Best Local Similarity   67.5%;  Pred. No. 0.00021;
  Matches   77;  Conservative    0;  Mismatches   37;  Indels    0;  Gaps    0;

Qy   1383 gttttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaat 1442
          | | ||  ||    | |||  |  | |||| ||| |  |  |   | | | | || ||
Db   1417 GCTGTTCATTGTACTGTTTTTTTCTATCTTCTATATGTTTAAAAGTATATAATAAAAATA 1476

Qy   1443 ttcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1496
          || || | ||||||  |||||  |||||||||||||||||||||||||||||||
Db   1477 TTTAATTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1530


RESULT   4
US-08-545-196B-12
; Sequence 12, Application US/08545196B
; Patent No. 6080577
;  GENERAL INFORMATION:
;    APPLICANT:  MELKI, JUDITH
;    APPLICANT:  MUNNICH, ARNOLD
;    TITLE OF INVENTION:  SURVIVAL MOTOR NEURON (SMN) GENE: A GENE
;    TITLE OF INVENTION:  FOR SPINAL MUSCULAR ATROPHY
;    NUMBER OF SEQUENCES:  65
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BIRCH, STEWART, KOLASCH AND BIRCH, LLP
```

```
;       STREET:  PO BOX 747
;       CITY:  FALLS CHURCH
;       STATE:  VA
;       COUNTRY:  USA
;       ZIP:  22040-0747
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/545,196B
;       FILING DATE:  19-OCT-1995
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  FARACI, C. J.
;       REGISTRATION NUMBER:  32,350
;       REFERENCE/DOCKET NUMBER:  2121-110P
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (703) 205-8000
;       TELEFAX:  (703) 205-8050
;   INFORMATION FOR SEQ ID NO:  12:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1582 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  cDNA
US-08-545-196B-12


  Query Match             3.7%;  Score 54.8;  DB 3;  Length 1582;
  Best Local Similarity   67.5%;  Pred. No. 0.00021;
  Matches   77;  Conservative    0;  Mismatches   37;  Indels    0;  Gaps    0;

Qy   1383 gttttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaat 1442
          | | ||  ||    | |||  |  | |||| ||| |  |  |   | | | | || ||
Db   1417 GCTGTTCATTGTACTGTTTTTTTCTATCTTCTATATGTTTAAAAGTATATAATAAAAATA 1476

Qy   1443 ttcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1496
          || || | ||||||  |||||  ||||||||||||||||||||||||||||||||
Db   1477 TTTAATTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1530


RESULT   5
US-07-867-106-4/c
; Sequence 4, Application US/07867106
; Patent No. 5389526
;  GENERAL INFORMATION:
;     APPLICANT:  Slade, Martin B
;     APPLICANT:  Chang, Andy C M
;     APPLICANT:  Williams, Keith L
;     TITLE OF INVENTION:  Improved Plasmid Vectors for Cellular
;     TITLE OF INVENTION:  Slime Moulds of the Genus Dictyostelium
;     NUMBER OF SEQUENCES:  19
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris
;       STREET:  One Liberty Place 46th Floor
;       CITY:  Philadelphia
;       STATE:  PA
;       COUNTRY:  USA
;       ZIP:  19103
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/07/867,106
;       FILING DATE:  19920625
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  AU PJ 7187
;       APPLICATION NUMBER:  PCT/AU90/00530
;       FILING DATE:  02-NOV-1989
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Feeney, Joanne Longo
;       REGISTRATION NUMBER:  35,134
;       REFERENCE/DOCKET NUMBER:  RICE-0002
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  215-568-3100
;       TELEFAX:  215-568-3439
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  3138 base pairs
;       TYPE:  NUCLEIC ACID
;       STRANDEDNESS:  single
;       TOPOLOGY:  circular
;     MOLECULE TYPE:  DNA (genomic)
;     ANTI-SENSE:  NO
US-07-867-106-4


  Query Match             3.6%;  Score 54.4;  DB 1;  Length 3138;
  Best Local Similarity   62.5%;  Pred. No. 0.00035;
  Matches   85;  Conservative    0;  Mismatches   51;  Indels    0;  Gaps    0;

Qy   1361 aagatttgggggaacctgatgagtttttttttttgcatctttaataatttcttgtatgttg 1420
          ||  | ||  ||||  | ||    | ||||||  |  |  || | | |||| || || |
Db   2087 AATGTATGTTGGAATTTCATTTTTATTTTTTATTTAATTTAATTTATTTGTTTTAAGAAA 2028

Qy   1421 tagagtatgttttaaaataaatttcaagtatttttttttaaaaactaaaaaaaaaaaaaaa 1480
          ||    |      |||| ||| |     |||    | | ||||  ||||||||||||||||
Db   2027 TAAGAAAAAAAAAAAAAAAAAAATCTTTTTATGCAATCTGAAAAAAAAAAAAAAAAAAAAA 1968

Qy   1481 aaaaaaaaaaaaaaaa 1496
          ||||||||||||||||
Db   1967 AAAAAAAAAAAAAAAA 1952


RESULT   6
US-08-747-221B-36
; Sequence 36, Application US/08747221B
; Patent No. 6063610
;  GENERAL INFORMATION:
;     APPLICANT:  Silver, Gary W.
;     APPLICANT:  Wisnewski, Nancy
;     TITLE OF INVENTION:  No. 6063610el Carboxylesterase Nucleic Acid
;     TITLE OF INVENTION:  Molecules, Proteins and Uses Thereof
;     NUMBER OF SEQUENCES:  66
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Carol Talkington Verser, Ph.D.
;       ADDRESSEE:  Heska Corporation
;       STREET:  1825 Sharp Point Drive
;       CITY:  Fort Collins
;       STATE:  Colorado
;       COUNTRY:  USA
;       ZIP:  80525
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  Windows 95
;       SOFTWARE:  WordPerfect for Windows, Version 7.0
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/747,221B
;       FILING DATE:  No. 6063610ember 12, 1996
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Verser, Carol Talkington
;       REGISTRATION NUMBER:  37,459
;       REFERENCE/DOCKET NUMBER:  FC-1
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  970/493-7272
;       TELEFAX:  970/484-9505
;   INFORMATION FOR SEQ ID NO:  36:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  2007 nucleotides
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```
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  11..1594
US-08-747-221B-36


  Query Match             3.5%;  Score 53;  DB 3;  Length 2007;
  Best Local Similarity   67.9%;  Pred. No. 0.00064;
  Matches   74;  Conservative    0;  Mismatches   35;  Indels    0;  Gaps    0;

Qy   1384 ttttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaatt 1443
          || ||    |   | | | ||| || ||| ||| || |    | | |||||    ||||
Db   1899 TTATTACCATCTTTGTATCATATTTGCTTTTATTTTTTCATTTTTTTTTTATTTCAAATA 1958

Qy   1444 tcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaa 1492
          |   || ||||| | |||||  ||||||||||||||||||||||||||
Db   1959 TATTGTTTTTTTTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2007


RESULT   7
US-08-747-221B-38/c
; Sequence 38, Application US/08747221B
; Patent No. 6063610
;  GENERAL INFORMATION:
;    APPLICANT:  Silver, Gary W.
;    APPLICANT:  Wisnewski, Nancy
;    TITLE OF INVENTION:  No. 6063610el Carboxylesterase Nucleic Acid
;    TITLE OF INVENTION:  Molecules, Proteins and Uses Thereof
;    NUMBER OF SEQUENCES:  66
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/747,221B
;      FILING DATE:  No. 6063610ember 12, 1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  FC-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  38:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2007 nucleotides
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-747-221B-38


  Query Match             3.5%;  Score 53;  DB 3;  Length 2007;
  Best Local Similarity   67.9%;  Pred. No. 0.00064;
  Matches   74;  Conservative    0;  Mismatches   35;  Indels    0;  Gaps    0;

Qy   1384 ttttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaatt 1443
          || ||    |   | | | ||| || ||| ||| || |    | | |||||    ||||
Db    109 TTATTACCATCTTTGTATCATATTTGCTTTTATTTTTTCATTTTTTTTTTATTTCAAATA 50

Qy   1444 tcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaa 1492
          |   || ||||| | |||||  ||||||||||||||||||||||||||
Db     49 TATTGTTTTTTTTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1


RESULT   8
US-09-005-051-36
; Sequence 36, Application US/09005051
; Patent No. 6291222
;  GENERAL INFORMATION:
;    APPLICANT:  Silver, Gary W.
;    APPLICANT:  Wisnewski, Nancy
;    TITLE OF INVENTION:  No. 6291222el Carboxylesterase Nucleic Acid
;    TITLE OF INVENTION:  Molecules, Proteins and Uses Thereof
;    NUMBER OF SEQUENCES:  66
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/005,051
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/747,221
;      FILING DATE:  No. 6291222ember 12, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  FC-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  36:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2007 nucleotides
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  11..1594
US-09-005-051-36


  Query Match             3.5%;  Score 53;  DB 4;  Length 2007;
  Best Local Similarity   67.9%;  Pred. No. 0.00064;
  Matches   74;  Conservative    0;  Mismatches   35;  Indels    0;  Gaps    0;

Qy   1384 ttttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaatt 1443
          || ||    |   | | | ||| || ||| ||| || |    | | |||||    ||||
Db   1899 TTATTACCATCTTTGTATCATATTTGCTTTTATTTTTTCATTTTTTTTTTATTTCAAATA 1958

Qy   1444 tcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaa 1492
          |   || ||||| | |||||  ||||||||||||||||||||||||||
Db   1959 TATTGTTTTTTTTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2007


RESULT   9
US-09-005-051-38/c
; Sequence 38, Application US/09005051
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; Patent No. 6291222
;  GENERAL INFORMATION:
;    APPLICANT:  Silver, Gary W.
;    APPLICANT:  Wisnewski, Nancy
;    TITLE OF INVENTION:  No. 6291222el Carboxylesterase Nucleic Acid
;    TITLE OF INVENTION:  Molecules, Proteins and Uses Thereof
;    NUMBER OF SEQUENCES:  66
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/005,051
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/747,221
;      FILING DATE:  No. 6291222ember 12, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  FC-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  38:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2007 nucleotides
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-09-005-051-38


  Query Match             3.5%;  Score 53;  DB 4;  Length 2007;
  Best Local Similarity   67.9%;  Pred. No. 0.00064;
  Matches   74;  Conservative    0;  Mismatches   35;  Indels    0;  Gaps    0;

Qy   1384 ttttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaattt 1443
          || ||     |   | | | ||| || ||| ||| || |    | | |||||    ||||
Db    109 TTATTACCATCTTTGTATCATATTTGCTTTTATTTTTTCATTTTTTTTTTATTTCAAATA 50

Qy   1444 tcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1492
          |   || ||||| | |||||  ||||||||||||||||||||||||||
Db     49 TATTGTTTTTTTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1

RESULT  10
US-08-242-677-1
; Sequence 1, Application US/08242677
; Patent No. 5677143
;  GENERAL INFORMATION:
;    APPLICANT:  Gaynor, Richard B
;    APPLICANT:  Wu, Foon W.
;    TITLE OF INVENTION:  Cellular Nucleic Acid Binding Protein
;    TITLE OF INVENTION:  and Uses Thereof in regulating Gene Expression and in the
;    TITLE OF INVENTION:  Treatment of AIDS
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold, White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  TX
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/242,677
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Mayfield, Denise L.
;      REGISTRATION NUMBER:  33,732
;      REFERENCE/DOCKET NUMBER:  UTSD:401
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  713-787-1400
;      TELEFAX:  713-789-2679
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  5173 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..4863
US-08-242-677-1


  Query Match             3.5%;  Score 52.8;  DB 1;  Length 5173;
  Best Local Similarity   67.0%;  Pred. No. 0.0011;
  Matches   75;  Conservative    0;  Mismatches   37;  Indels    0;  Gaps    0;

Qy   1385 ttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaattt 1444
          | ||||      |  | || | ||| |  ||  |||||   |   ||| | || | ||||
Db   5028 TATTTTCCCCTTTAATAAACACTTTTTGTTAAATTGTATTCTTCCTTTAATAAAATATTT 5087

Qy   1445 caagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1496
          ||| | || |   | |||  ||||||-||||||||||||||||||||||||
Db   5088 TAAGCAATTGTCCAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 5139

RESULT  11
US-08-909-965C-3
; Sequence 3, Application US/08909965C
; Patent No. 5936078
;  GENERAL INFORMATION:
;    APPLICANT:  Kuga Tetsro
;    APPLICANT:  Nakagawa Satoshi
;    APPLICANT:  Sakaki yoshiyuki
;    APPLICANT:  Zhao Nanding
;    APPLICANT:  Hashida Hideji
;    TITLE OF INVENTION:  NOVEL DNA, NOVEL POLYPEPTIDE
;    TITLE OF INVENTION:  AND NOVEL ANTIBODY
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FITZPATRICK, CELLA, HARPER AND SCINTO
;      STREET:  277 Park Avenue
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10172-0194
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/909,965C
;      FILING DATE:  August 12, 1997
;      CLASSIFICATION:  514
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;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 322745/95
;      APPLICATION NUMBER:  PCT/JP96/03630
;      FILING DATE:  12-No. 5936078-1995
;      FILING DATE:  12-Dec-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lawrence S. Perry
;      REGISTRATION NUMBER:  31865
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-758-2400
;      TELEFAX:  212-758-2982
;      TELEX:  236262
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1420 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA to mRNA
;    ORIGINAL SOURCE:
;      ORGANISM:  human
;    IMMEDIATE SOURCE:
;      CLONE:  F198
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  378 to 575
;      LOCATION:  590 to 709
;      LOCATION:  1105 to 1206
;      IDENTIFICATION METHOD:  by experiment
US-08-909-965C-3


  Query Match             3.5%;  Score 52.6;  DB 2;  Length 1420;
  Best Local Similarity   66.1%;  Pred. No. 0.00069;
  Matches   76;  Conservative    0;  Mismatches   39;  Indels    0;  Gaps    0;

Qy   1382 agttttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaa 1441
          ||| ||||  |||  |||||   | |||||     |  |   |     | |  ||| |||
Db   1302 AGTATTTTGGTTGGCTCTTTGTGATTTTCTACACAGAAGATTATGTCATCTACAAACAAA 1361

Qy   1442 tttcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1496
          | | |  |   || || |||||  ||||||||||||||||||||||||||||||
Db   1362 TATAATTTTACTTCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1416


RESULT  12
US-08-123-934A-5
; Sequence 5, Application US/08123934A
; Patent No. 6291206
;  GENERAL INFORMATION:
;    APPLICANT:  WOZNEY, John
;    APPLICANT:  CELESTE, Anthony J.
;    APPLICANT:  THIES, R. Scott
;    APPLICANT:  YAMAJI, No. 6291206oru
;    TITLE OF INVENTION:  RECEPTOR PROTEINS
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genetics Institute Inc.- Legal Affairs
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/123,934A
;      FILING DATE:  17-SEP-1993
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LAZAR, Steven R
;      REGISTRATION NUMBER:  32,618
;      REFERENCE/DOCKET NUMBER:  5203
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617 876 1170
;      TELEFAX:  617 876 5851
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3238 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    IMMEDIATE SOURCE:
;      CLONE:  CFK1-10a
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  474..2000
US-08-123-934A-5


  Query Match             3.5%;  Score 52.6;  DB 4;  Length 3238;
  Best Local Similarity   68.2%;  Pred. No. 0.001;
  Matches   73;  Conservative    0;  Mismatches   34;  Indels    0;  Gaps    0;

Qy   1390 ttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaatttcaagt 1449
          | ||   | || |   | || |||||| | ||||    |  | |||| |||||     ||
Db   3091 TATTTTGTTTTAATCTACTTTTTGTATTTAGTAGTTATTTGTATAAATTAAATAAACTGT 3150

Qy   1450 attttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1496
            ||    | |||||  ||||||||||||||||||||||||||||||
Db   3151 TTTCAAGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3197


RESULT  13
PCT-US94-10080-5
; Sequence 5, Application PC/TUS9410080
;  GENERAL INFORMATION:
;    APPLICANT:  GENETICS INSTITUTE, INC.
;    TITLE OF INVENTION:  RECEPTOR PROTEINS
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genetics Institute Inc.- Legal Affairs
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/10080
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/123,934
;      FILING DATE:  17-SEP-1993
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LAZAR, Steven R
;      REGISTRATION NUMBER:  32,618
;      REFERENCE/DOCKET NUMBER:  5203-PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 498-8260
;      TELEFAX:  (617) 876-5851
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3238 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
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;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    IMMEDIATE SOURCE:
;      CLONE:  CFK1-10a
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  474..2000
PCT-US94-10080-5


  Query Match          3.5%;  Score 52.6;  DB 5;  Length 3238;
  Best Local Similarity   68.2%;  Pred. No. 0.001;
  Matches   73;  Conservative    0;  Mismatches   34;  Indels    0;  Gaps    0;

Qy   1390 ttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaatttcaagt 1449
          | ||   | || |   | || ||||||| | ||||    |  | |||| |||||     ||
Db   3091 TATTTTGTTTTAATCTACTTTTTGTATTTAGTAGTTATTTGTATAAATTAAATAAACTGT 3150

Qy   1450 attttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1496
            ||    | |||||  ||||||||||||||||||||||||||||||||
Db   3151 TTTCAAGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3197


RESULT  14
US-08-738-349-1
; Sequence 1, Application US/08738349
; Patent No. 5869638
;  GENERAL INFORMATION:
;    APPLICANT:  Takeshita, Sunao
;    APPLICANT:  Okazaki, Makoto
;    APPLICANT:  Kawai, Shinji
;    APPLICANT:  Tsujimura, Atsushi
;    APPLICANT:  Amann, Egon
;    TITLE OF INVENTION:  Bone-Related Cadherin-Like Protein and
;    TITLE OF INVENTION:  Process for Its Production
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/738,349
;      FILING DATE:  25-OCT-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/364,439
;      FILING DATE:
;      APPLICATION NUMBER:  US 08/112,061
;      FILING DATE:  26-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Barker, M. P.
;      REGISTRATION NUMBER:  32,013
;      REFERENCE/DOCKET NUMBER:  02481.1323-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3581 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA to mRNA
;    ORIGINAL SOURCE:
;      ORGANISM:  Mus musculus
;      STRAIN:  osteoblastic cell line MC3T3E1
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  284..2671
US-08-738-349-1


  Query Match          3.5%;  Score 52.4;  DB 2;  Length 3581;
  Best Local Similarity   67.3%;  Pred. No. 0.0012;
  Matches   74;  Conservative    0;  Mismatches   36;  Indels    0;  Gaps    0;

Qy   1387 ttttttttgcatctttaataatttcttgtatgttgtagagtatgttttaaaataaatttca 1446
           || |  ||  |||||||||    |||  || | |   |    |  ||| |||  |||
Db   3434 TTGTACTGTTGCTTTAATATGAGCTTCAATATAAGAAGCAACCTTTGAAATAAAAAAAAG 3493

Qy   1447 agtatttttttttaaaaactaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 1496
           | | ||||||  |||||  ||||||||||||||||||||||||||||||
Db   3494 ATTCTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3543


RESULT  15
US-09-541-782-7
; Sequence 7, Application US/09541782
; Patent No. 6284480
; GENERAL INFORMATION:
;  APPLICANT:  Nislow, Corey
;  APPLICANT:  Sakowicz, Roman
;  APPLICANT:  Beraud, Christophe
;  TITLE OF INVENTION:  Antifungal Assay
;  FILE REFERENCE:  1015
;  CURRENT APPLICATION NUMBER: US/09/541,782
;  CURRENT FILING DATE:  2000-04-03
;  NUMBER OF SEQ ID NOS:  10
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 3709
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-541-782-7


  Query Match          3.5%;  Score 52;  DB 4;  Length 3709;
  Best Local Similarity   62.1%;  Pred. No. 0.0015;
  Matches   82;  Conservative    0;  Mismatches   50;  Indels    0;  Gaps    0;

Qy   1365 tttgggggaacctgatgagtttttttttgcatctttaataatttcttgtatgttgtaga 1424
           ||||   |   ||  ||  | ||  ||||   | | ||  ||| | | | || | ||| |
Db   3572 tttgtttggctcttctggatattcattttatctgtatatcaatctttggaatttcgtaca 3631

Qy   1425 gtatgttttaaaataaatttcaagtatttttttttaaaaactaaaaaaaaaaaaaaaaaaa 1484
           |   | || |||||||  |     |  | | |   |   |  ||||||||||||||||||
Db   3632 tttattatttaaataaactcagtatgctatgtaaagttaaaaaaaaaaaaaaaaaaaaaa 3691

Qy   1485 aaaaaaaaaaaa 1496
           ||||||||||||
Db   3692 aaaaaaaaaaaa 3703


Search completed: April 11, 2002, 00:23:32
Job time: 10279 sec
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GenCore version 4.5

OM protein - protein search, using sw model

Run on: April 10, 2002, 17:16:24 ; Search time 21.63 Seconds
(without alignments)
440.078 Million cell updates/sec

Title: US-09-380-276A-8
Perfect score: 2283
Sequence: 1 MALKVLLEQEKTFFTLLVLL.....AIIHPATQTSLQVRQRLGSL 423

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	869	38.1	210	4	US-09-286-529-3	Sequence 3, Appli
2	714.5	31.3	151	4	US-09-286-529-4	Sequence 4, Appli
3	159	7.0	438	1	US-08-097-827-11	Sequence 11, Appl
4	159	7.0	438	1	US-08-494-574-11	Sequence 11, Appl
5	150	6.6	206	1	US-08-097-827-7	Sequence 7, Appli
6	150	6.6	206	1	US-08-494-574-7	Sequence 7, Appli
7	145	6.4	205	3	US-08-974-022-51	Sequence 51, Appl
8	145	6.4	205	4	US-08-795-445A-51	Sequence 51, Appl
9	145	6.4	205	4	US-08-795-447A-51	Sequence 51, Appl
10	145	6.4	205	4	US-08-974-186-51	Sequence 51, Appl
11	145	6.4	205	4	US-08-795-446B-51	Sequence 51, Appl
12	144	6.3	1104	2	US-08-327-832-5	Sequence 5, Appli
13	144	6.3	1104	2	US-08-828-584-5	Sequence 5, Appli
14	136	6.0	625	3	US-08-996-139-15	Sequence 15, Appl
15	136	6.0	625	4	US-08-995-659-15	Sequence 15, Appl
16	136	6.0	625	4	US-09-215-649A-15	Sequence 15, Appl
17	134.5	5.9	415	4	US-09-006-353A-6	Sequence 6, Appli
18	134	5.9	186	1	US-08-089-458B-6	Sequence 6, Appli
19	134	5.9	307	4	US-08-804-166-4	Sequence 4, Appli
20	134	5.9	307	4	US-08-910-991-4	Sequence 4, Appli
21	133.5	5.8	2050	2	US-08-347-594A-2	Sequence 2, Appli
22	132.5	5.8	197	2	US-08-505-606-1	Sequence 1, Appli
23	132	5.8	276	4	US-09-041-886-27	Sequence 27, Appl
24	132	5.8	277	4	US-09-042-785A-10	Sequence 10, Appl
25	132	5.8	277	4	US-09-006-353A-10	Sequence 10, Appl
26	131	5.7	139	2	US-08-219-237B-8	Sequence 8, Appli
27	131	5.7	176	4	US-09-411-722-1	Sequence 1, Appli
28	130.5	5.7	140	4	US-08-477-347-17	Sequence 17, Appl
29	130.5	5.7	140	4	US-08-476-862-8	Sequence 8, Appli
30	129.5	5.7	336	4	US-08-804-166-8	Sequence 8, Appli
31	129.5	5.7	336	4	US-08-910-991-8	Sequence 8, Appli
32	129	5.7	326	1	US-08-292-549-4	Sequence 4, Appli
33	129	5.7	326	5	PCT-US91-02207-4	Sequence 4, Appli
34	128.5	5.6	1170	1	US-08-313-288B-20	Sequence 20, Appl
35	128	5.6	355	1	US-08-292-549-6	Sequence 6, Appli
36	128	5.6	355	4	US-09-006-353A-14	Sequence 14, Appl
37	127	5.6	419	4	US-08-509-024-7	Sequence 7, Appli
38	127	5.6	419	4	US-09-333-279-7	Sequence 7, Appli
39	126	5.5	148	4	US-09-411-722-2	Sequence 2, Appli
40	124.5	5.5	1111	1	US-08-317-450B-15	Sequence 15, Appl
41	124.5	5.5	1111	4	US-08-800-593-15	Sequence 15, Appl
42	124.5	5.5	1193	1	US-08-317-450B-13	Sequence 13, Appl
43	124.5	5.5	1193	4	US-08-800-593-13	Sequence 13, Appl
44	124.5	5.5	2813	3	US-08-896-449A-2	Sequence 2, Appli
45	124.5	5.5	2813	3	US-09-132-652-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-286-529-3
; Sequence 3, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 210
; TYPE: PRT
; ORGANISM: human
US-09-286-529-3

Query Match 38.1%; Score 869; DB 4; Length 210;
Best Local Similarity 83.7%; Pred. No. 3.1e-73;
Matches 154; Conservative 11; Mismatches 19; Indels 0; Gaps 0;

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Qy       1 MALKVLLEQEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDRSGNCVPCNQCGPGMELSK 60
           ||||||       |  :: | :|:|||:||||||||||||:||||||| | ||||||||||
Db       1 MALKVLPLHRTVLFAAILFLLHLACKVSCETGDCRQQEFKDRSGNCVLCKQCGPGMELSK 60

Qy      61 ECGFGYGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATSDAICGDCLPG 120
           ||||||||||||| || |||||||||||||| |||:|||||:|||| ||||:|||||||
Db      61 ECGFGYGEDAQCVPCRPHRFKEDWGFQKCKPCADCALVNRFQRANCSHTSDAVCGDCLPG 120

Qy     121 FYRKTKLVGFQDMECVPCGDPPPPYEPHCASKVNLVKIASTASSPRDTALAAVICSALAT 180
           ||||||||||||||||||||||||||||| ||||||||:|| ||||||:||||||||||
Db     121 FYRKTKLVGFQDMECVPCGDPPPPYEPHCTSKVNLVKISSTVSSPRDTAVAAVICSALAT 180

Qy     181 VLLA 184
           ||||
Db     181 VLLA 184
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RESULT 2
US-09-286-529-4
; Sequence 4, Application US/09286529
; Patent No. 6297367
; GENERAL INFORMATION:
; APPLICANT: Catherine Tribouley
; TITLE OF INVENTION: NEW MEMBERS OF TNF AND TNFR FAMILIES
; FILE REFERENCE: 1408.003/200130.439C1
; CURRENT APPLICATION NUMBER: US/09/286,529
; CURRENT FILING DATE: 1999-04-05

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;  NUMBER OF SEQ ID NOS:  25
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: human
US-09-286-529-4


  Query Match             31.3%;  Score 714.5;  DB 4;  Length 151;
  Best Local Similarity   82.0%;  Pred. No. 4.6e-59;
  Matches  123;  Conservative    9;  Mismatches   17;  Indels    1;  Gaps    1;

Qy       1 MALKVLLEQEKTFFTLLVLLGYLSCKVTCETGDC-RQQEFRDRSGNCVPCNQCGPGMELS 59
           ||||||       |  :: | :|:|||:|||||| |||||:||||||| | |||||||||
Db       1 MALKVLPLHRTVLFAAILFLLHLACKVSCETGDCSRQQEFKDRSGNCVLCKQCGPGMELS 60

Qy      60 KECGFGYGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATSDAICGDCLP 119
           |||||||||||||| || |||||||||||||| |||:|||||:|||| ||||:|||||| 
Db      61 KECGFGYGEDAQCVPCRPHRFKEDWGFQKCKPCADCALVNRFQRANCSHTSDAVCGDCLP 120

Qy     120 GFYRKTKLVGFQDMECVPCGDPPPPYEPHC 149
           |||||||||||||||||||||||||||||
Db     121 GFYRKTKLVGFQDMECVPCGDPPPPYEPHC 150


RESULT   3
US-08-097-827-11
; Sequence 11, Application US/08097827
;   GENERAL INFORMATION:
;        APPLICANT: Baum, Peter
;                   Goodwin, Ray
;                   Fanslow, William
;                   Gayle, Richard
;        TITLE OF INVENTION: Novel Cytokine Which is a Ligand for
;                            OX40
;        NUMBER OF SEQUENCES: 13
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Immunex Corporation
;             STREET: 51 University Street
;             CITY: Seattle
;             STATE: WA
;             COUNTRY: USA
;             ZIP: 98101
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/08/097,827
;             FILING DATE: 23-Jul-1993
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Perkins, Patricia A.
;             REGISTRATION NUMBER: 34,693
;             REFERENCE/DOCKET NUMBER: 2806
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 206-587-0730
;   INFORMATION FOR SEQ ID NO: 11:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 438 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-08-097-827-11


  Query Match             7.0%;  Score 159;  DB 1;  Length 438;
  Best Local Similarity   27.5%;  Pred. No. 9.9e-07;
  Matches   69;  Conservative   31;  Mismatches   93;  Indels   58;  Gaps   18;

Qy      15 TLLVLLGYLSCKVTCETGDCRQQEFRDRSGN-CVPCNQCGPGMELSKECGFGYGEDAQCV 73
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Db       9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy      74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
           |    : |   :  || |  |    :  : | ||: | | :|  | ||   :       ||
Db      62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy     133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
                ::|||| ||  : |     |    |          |   :| || |   | ||
Db     115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy     180 TVLLALLILCVIYCKRQFMEKKPSW---SLRSQDIQYNGSELSCLDRPQLHEYAHRACCQ 236
           |:|              :  ::|::   :::|  :    |||     | | |   |:|
Db     172 TLL--------------WETQRPTFRPTTVQSTTVWPRTSELP--STPTLVE--PRSC-- 211

Qy     237 CRRDSVQTCGP 247
               |   || |
Db     212 ---DKTHTCPP 219


RESULT   4
US-08-494-574-11
; Sequence 11, Application US/08494574
; Patent No. 5783665
;  GENERAL INFORMATION:
;    APPLICANT:  Baum, Peter
;    APPLICANT:  Goodwin, Ray
;    APPLICANT:  Fanslow, William
;    APPLICANT:  Gayle, Richard
;    TITLE OF INVENTION:  No. 5783665el Cytokine Which is a Ligand for
;    TITLE OF INVENTION:  OX40
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/494,574
;      FILING DATE:  22-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/097,827
;      FILING DATE:  23-JUL-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia A.
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2806
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  206-587-0730
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  438 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-494-574-11


  Query Match             7.0%;  Score 159;  DB 1;  Length 438;
  Best Local Similarity   27.5%;  Pred. No. 9.9e-07;
  Matches   69;  Conservative   31;  Mismatches   93;  Indels   58;  Gaps   18;

Qy      15 TLLVLLGYLSCKVTCETGDCRQQEFRDRSGN-CVPCNQCGPGMELSKECGFGYGEDAQCV 73
           | |:||| |:  ||    :| :  :   ||: |  | :| ||  :   |   :  | |
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Db      9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy     74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
          |    : |   :  || |  |    :  : | ||: | | :|  | ||   :      ||
Db     62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy    133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
               ::|||| ||  : |     |    |          |   :| || |   | ||
Db    115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy    180 TVLLALLILCVIYCKRQFMEKKPSW---SLRSQDIQYNGSELSCLDRPQLHEYAHRACCQ 236
          |:|              :  ::|::   :::|  :    |||     | | |   |:|
Db    172 TLL-------------WETQRPTFRPTTVQSTTVWPRTSELP--STPTLVE--PRSC-- 211

Qy    237 CRRDSVQTCGP 247
             |   || |
Db    212 ---DKTHTCPP 219


RESULT   5
US-08-097-827-7
; Sequence 7, Application US/08097827
;   GENERAL INFORMATION:
;        APPLICANT: Baum, Peter
;                   Goodwin, Ray
;                   Fanslow, William
;                   Gayle, Richard
;        TITLE OF INVENTION: Novel Cytokine Which is a Ligand for
;                            OX40
;        NUMBER OF SEQUENCES: 13
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Immunex Corporation
;             STREET: 51 University Street
;             CITY: Seattle
;             STATE: WA
;             COUNTRY: USA
;             ZIP: 98101
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/08/097,827
;             FILING DATE: 23-Jul-1993
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Perkins, Patricia A.
;             REGISTRATION NUMBER: 34,693
;             REFERENCE/DOCKET NUMBER: 2806
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 206-587-0730
;   INFORMATION FOR SEQ ID NO: 7:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 206 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-08-097-827-7


  Query Match             6.6%;  Score 150;  DB 1;  Length 206;
  Best Local Similarity   30.1%;  Pred. No. 2.4e-06;
  Matches   55;  Conservative   21;  Mismatches   75;  Indels   32;  Gaps   13;

Qy     15 TLLVLLGYLSCKVTCETGDCRQQEFRDRSGN-CVPCNQCGPGMELSKECGFGYGEDAQCV 73
          | |:||| |:  ||    :| :  :   ||: |  | :| ||  :   |  :  |  |
Db      9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy     74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
          |    : |   :  || |  |    :  : | ||: | | :|  | ||   :      ||
Db     62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy    133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
               ::|||| ||  : |     |    |          |   :| || |   | ||
Db    115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy    180 TVL 182
          |:|
Db    172 TLL 174


RESULT   6
US-08-494-574-7
; Sequence 7, Application US/08494574
; Patent No. 5783665
;  GENERAL INFORMATION:
;    APPLICANT:  Baum, Peter
;    APPLICANT:  Goodwin, Ray
;    APPLICANT:  Fanslow, William
;    APPLICANT:  Gayle, Richard
;    TITLE OF INVENTION:  No. 5783665el Cytokine Which is a Ligand for
;    TITLE OF INVENTION:  OX40
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/494,574
;      FILING DATE:  22-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/097,827
;      FILING DATE:  23-JUL-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia A.
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2806
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  206-587-0730
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  206 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-494-574-7


  Query Match             6.6%;  Score 150;  DB 1;  Length 206;
  Best Local Similarity   30.1%;  Pred. No. 2.4e-06;
  Matches   55;  Conservative   21;  Mismatches   75;  Indels   32;  Gaps   13;

Qy     15 TLLVLLGYLSCKVTCETGDCRQQEFRDRSGN-CVPCNQCGPGMELSKECGFGYGEDAQCV 73
          | |:||| |:  ||    :| :  :   ||: |  | :| ||  :   |  :  |  |
Db      9 TALLLLG-LTLGVTARRLNCVKHTY--PSGHKC--CRECQPGHGMVNRC--DHTRDTLCH 61

Qy     74 TCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRKTKLVGFQD 132
          |    : |   :  || |  |    :  : | ||: | | :|  | ||   :      ||
Db     62 PCETGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTQDTVC-RCRPGTQPR------QD 114

Qy    133 ------MECVPCGDPPPPYEP----HCASKVNLVKIASTASSPRDTALAAVIC---SALA 179
               ::|||| ||  : |     |    |          |   :| || |   | ||
Db    115 SGYKLGVDCVPC--PPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAV-CEDRSLLA 171

Qy    180 TVL 182
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```
          |:|
Db    172 TLL 174


RESULT   7
US-08-974-022-51
; Sequence 51, Application US/08974022
; Patent No. 6015938
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/974,022
;      FILING DATE:  12-DEC-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-974-022-51


  Query Match             6.4%;  Score 145;  DB 3;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                ::||||  ||  : |     |     |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT   8
US-08-795-445A-51
; Sequence 51, Application US/08795445A
; Patent No. 6284485
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,445A
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-445A-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                ::||||  ||  : |     |     |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT   9
US-08-795-447A-51
; Sequence 51, Application US/08795447A
; Patent No. 6284728
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, William J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  Osteoprotegerin
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  One Amgen Center Drive
```

```
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91362-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,447A
;      FILING DATE:
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378D2
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-447A-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                 ::||||  ||  : |     |    |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT  10
US-08-974-186-51
; Sequence 51, Application US/08974186
; Patent No. 6284740
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/974,186
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-974-186-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity   28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  |  |  |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                 ::||||  ||  : |     |    |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT  11
US-08-795-446B-51
; Sequence 51, Application US/08795446B
; Patent No. 6288032
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, Willaim J.
;    APPLICANT:  Lacey, David L.
;    APPLICANT:  Calzone, Frank J.
;    APPLICANT:  Chang, Ming-Shi
;    TITLE OF INVENTION:  OSTEOPROTEGERIN
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91320-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,446B
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/577,788
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-378
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
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;      LENGTH:  205 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-446B-51


  Query Match             6.4%;  Score 145;  DB 4;  Length 205;
  Best Local Similarity  28.6%;  Pred. No. 6.9e-06;
  Matches   54;  Conservative   23;  Mismatches   76;  Indels   36;  Gaps   12;

Qy       9 QEKTFFTLLVLLGYLSCKVTCETGDCRQQEFRDR--SGN-CVPCNQCGPGMELSKECGFG 65
           |: | | || |   :: |: |          :|   ||: |  | :| ||  :   |
Db       6 QQPTAFLLLGLSLGVTVKLNC---------VKDTYPSGHKC--CRECQPGHGMVSRC--D 52

Qy      66 YGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNRFQ-KANCSATSDAICGDCLPGFYRK 124
           :  | | |    : |   :  || |  |   :  : | ||: | | :|  | ||   :
Db      53 HTRDTVCHPCEPGFYNEAVNYDTCKQCTQCNHRSGSELKQNCTPTEDTVC-QCRPGTQPR 111

Qy     125 TKLVGFQDMECVPCGDPPPPYEP----HCASKVNLV----KIASTASSPRDTALAAVIC- 175
                ::|||| ||  : |     |    |      :|   ||:  ||     :|
Db     112 QDSSHKLGVDCVPC--PPGHFSPGSNQACKPWTNCTLSGKQIRHPASNSLDT-----VCE 164

Qy     176 --SALATVL 182
             | |||:|
Db     165 DRSLLATLL 173


RESULT  12
US-08-327-832-5
; Sequence 5, Application US/08327832
; Patent No. 5840832
;  GENERAL INFORMATION:
;    APPLICANT:  Ono, Santa J.
;    APPLICANT:  Strominger, Jack L.
;    TITLE OF INVENTION:  Transcription Factor Regulating MHC
;    TITLE OF INVENTION:  Expression, cDNA and Genomic Clones Encoding Same and
;    TITLE OF INVENTION:  Retroviral Expression Contructs Thereof
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Banner, Birch, McKie & Beckett
;      STREET:  1001 G Street, N.W.
;      CITY:  Washington, D.C.
;      STATE:  District of Columbia
;      COUNTRY:  U.S.A.
;      ZIP:  20001
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/327,832
;      FILING DATE:
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Posorske, Laurence H.
;      REGISTRATION NUMBER:  34,698
;      REFERENCE/DOCKET NUMBER:  1107.46362
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  20-2 508-9153
;      TELEFAX:  202 508-9299
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1104 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-327-832-5


  Query Match             6.3%;  Score 144;  DB 2;  Length 1104;
  Best Local Similarity  18.8%;  Pred. No. 9e-05;
  Matches  110;  Conservative   59;  Mismatches  181;  Indels  236;  Gaps   27;

Qy      24 SCKVTCETGDCRQQEFRDRSGNCVPCNQCGPGMELSKECG-------FGYGEDAQC---- 72
           || : |  |                || |   |  : |||         |      |
Db     440 SCNLLCHPG--------------PCPPCPAFMTKTCECGRTRHTVRCGQAVSVHCSNPC 484

Qy      73 ---VTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATS-DAICGDCLPGFYRKTKLV 128
              : |  |:  |     :|:||    ::|  |   | :|| | :||  :       |
Db     485 ENILNCGQHQCAELCHGGQCQPCQ--IILN--QVCYCGSTSRDVLCGTDV------GKSD 534

Qy     129 GFQDMEC-------VPCGD--------PPP-------PYEPHC--ASKVNLVKIASTASS 164
           || |  |       : ||:         | |       |    |     :  | ::    ||
Db     535 GFGDFSCLKTCGKDLKCGNHTCSQVCHPQPCQQCPRLPQLVRCCPCGQTPLSQLLELGSS 594

Qy     165 PRDTALAAV-----IC-SALATVLLALLILC---------------VIYCKRQFMEKK- 201
           | | :  |      :|   |     |  :  |                || |:  |  |:
Db     595 SRKTCMDPVPSCGKVCGKPLPCGSLDFIHTCEKLCHEGDCGPVSRTSVISCRCSFRTKEL 654

Qy     202 PSWSLRSQDI-------------QYNGSELSCLDRPQ------------LH---EYA 230
           |  ||:|:|                ::  :|: |:|:              ||   |
Db     655 PCTSLKSEDATFMCDKRCNKKRLCGRHKCNEICCVDKEHKCPLNCGRKLRCGLHRCEEPC 714

Qy     231 HRACCQ-CRRDSVQT----CGPVRLLPSMCC-------------------------EE 258
           ||  || | : |       ||   : | : |                         ||
Db     715 HRGNCQTCWQASFDELTCHCGASVIYPPVPCGTRPPECTQTCARVHECDHPVYHSGHSEE 774

Qy     259 ACS-----------------------------PNPATLGCGVHSAASL---------- 277
           |                               |  ||| ||:|    |
Db     775 KCPPCTFLTQKWCMGKHEFRSNIPCHLVDISCGLPCSATLPCGMHKCQRLCHKGECLVDE 834

Qy     278 --------------------------------QAR-----NAGPAGEMVPTFFGSLTQSI 300
                                            :|:       |   |||     | |
Db     835 PCKQPCTTPRADCGHPCMAPCHTSSPCPVTACKAKVELQCECGRRKEMVICSEASSTYQR 894

Qy     301 CGEFSDAWPLMQNPMGGDNISFCDSYPELTGEDIHSLNPELESSTSLDSNSSQDLVGGAV 360
           | |  :    :||      :    :| :::|    | :  |       :  :  |
Db     895 IAAISMASKITDMQLGGS----VEISKLITKKEVHQARLECDEECSALERKKR--LAEAF 948

Qy     361 PVQSHSENFTAATDLSRYNNTLVESASTQDALTMRSQLDQESGAII 406
           :   |: |   :  |::::::| | |  :  |   | :::|   ::
Db     949 HISEDSDPFNIRSSGSKFSDSLKEDA--RKDLKFVSDVEKEMETLV 992


RESULT  13
US-08-828-584-5
; Sequence 5, Application US/08828584
; Patent No. 5908762
;  GENERAL INFORMATION:
;    APPLICANT:  Ono, Santa J.
;    APPLICANT:  Strominger, Jack L.
;    TITLE OF INVENTION:  Transcription Factor Regulating MHC
;    TITLE OF INVENTION:  Expression, cDNA and Genomic Clones Encoding Same and
;    TITLE OF INVENTION:  Retroviral Expression Contructs Thereof
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Banner, Birch, McKie & Beckett
;      STREET:  1001 G Street, N.W.
;      CITY:  Washington, D.C.
;      STATE:  District of Columbia
;      COUNTRY:  U.S.A.
;      ZIP:  20001
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/828,584
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Posorske, Laurence H.
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;      REGISTRATION NUMBER:  34,698
;      REFERENCE/DOCKET NUMBER:  1107.46362
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  20-2 508-9153
;      TELEFAX:  202 508-9299
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1104 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-828-584-5


  Query Match             6.3%;  Score 144;  DB 2;  Length 1104;
  Best Local Similarity   18.8%;  Pred. No. 9e-05;
  Matches  110;  Conservative   59;  Mismatches  181;  Indels  236;  Gaps   27;

Qy      24 SCKVTCETGDCRQQEFRDRSGNCVPCNQCGPGMELSKECG-------FGYGEDAQC---- 72
           || : |  |                 ||  |   |  : |||       |     |
Db     440 SCNLLCHPG--------------PCPPCPAFMTKTCECGRTRHTVRCGQAVSVHCSNPC 484

Qy      73 ---VTCRLHRFKEDWGFQKCKPCLDCAVVNRFQKANCSATS-DAICGDCLPGFYRKTKLV 128
              : |  |:  |     :|:||    ::|  |   | :|| | :||  :       |
Db     485 ENILNCGQHQCAELCHGGQCPCQ--IILN--QVCYCGSTSRDVLCGTDV------GKSD 534

Qy     129 GFQDMEC-------VPCGD--------PPP-------PYEPHC--ASKVNLVKIASTASS 164
           || |  |       : ||:        | |       |    :  | ::    ||
Db     535 GFGDFSCLKTCGKDLKCGNHTCSQVCHPQPCQQCPRLPQLVRCCPCGQTPLSQLLELGSS 594

Qy     165 PRDTALAAV-----IC-SALATVLLALLILC----------------VIYCKRQFMEKK- 201
           | | :  |     :|   |    |  :  |                 || |:  |  |:
Db     595 SRKTCMDPVPSCGKVCGKPLPCGSLDFIHTCEKLCHEGDCGPVSRTSVISCRCSFRTKEL 654

Qy     202 PSWSLRSQDI---------------QYNGSELSCLDRPQ-------------LH---EYA 230
           |  ||:|:|                ::  :|: |:|:                ||   |
Db     655 PCTSLKSEDATFMCDKRCNKKRLCGRHKCNEICCVDKEHKCPLNCGRKLRCGLHRCEEPC 714

Qy     231 HRACCQ-CRRDSVQT----CGPVRLLPSMCC--------------------------EE 258
           ||  || | : |       ||   : | : |                           ||
Db     715 HRGNCQTCWQASFDELTCHCGASVIYPPVPCGTRPPECTQTCARVHECDHPVYHSGHSEE 774

Qy     259 ACS-------------------------------PNPATLGCGVHSAASL---------- 277
           |                               |  ||| ||:|    |
Db     775 KCPPCTFLTQKWCMGKHEFRSNIPCHLVDISCGLPCSATLPCGMHKCQRLCHKGECLVDE 834

Qy     278 --------------------------------QAR-----NAGPAGEMVPTFFGSLTQSI 300
                                           :|:       |   |||     | |
Db     835 PCKQPCTTPRADCGHPCMAPCHTSSPCPVTACKAKVELQCECGRRKEMVICSEASSTYQR 894

Qy     301 CGEFSDAWPLMQNPMGGDNISFCDSYPELTGEDIHSLNPELESSTSLDSNSSQDLVGGAV 360
           | |  :    :||      :    :| :::|    | :   |      :  :  |
Db     895 IAAISMASKITDMQLGGS----VEISKLITKKEVHQARLECDEECSALERKKR--LAEAF 948

Qy     361 PVQSHSENFTAATDLSRYNNTLVESASTQDALTMRSQLDQESGAII 406
           :   |: |   :  |:::::| | |  :  |   | :::|   ::
Db     949 HISEDSDPFNIRSSGSKFSDSLKEDA--RKDLKFVSDVEKEMETLV 992


RESULT  14
US-08-996-139-15
; Sequence 15, Application US/08996139
; Patent No. 6017729
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/996,139
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2851-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  15:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  625 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-996-139-15


  Query Match             6.0%;  Score 136;  DB 3;  Length 625;
  Best Local Similarity   22.2%;  Pred. No. 0.00023;
  Matches  102;  Conservative   51;  Mismatches  171;  Indels  136;  Gaps   27;

Qy      16 LLVLLGYLSCKVTCE-TGDCRQQEFRDRSGNCVPCNQCGPGMELSKECGFGYGEDAQCVT 74
           | |||  :  :|| : |  | |:   :  | |  |::| ||  || :|      |: |:
Db      18 LCVLL--VPLQVTLQVTPPCTQERHYEHLGRC--CSRCEPGKYLSSKC--TPTSDSVCLP 71

Qy      75 CRLHRFKEDWGFQ-KC---KPC-LDCAVV-----NRFQKANCSAT------SDAIC---- 114
           |    : : |  : ||   |.|    |:|      |       |: |      ||  |
Db      72 CGPDEYLDTWNEEDKCLLHKVCDAGKALVAVDPGNHTAPRRCACTAGYHWNSDCECCRRN 131

Qy     115 GDCLPGFYRKTKLVGFQDMECVPC----------GDPPPPY---------EPH------ 148
            :| |||  :  |   :|  | ||             |   |:          | |
Db     132 TECAPGFGAQHPLQLNKDTVCTPCLLGFFSDVFSSTDKCKPWTNCTLLGKLEAHQGTTES 191

Qy     149 ---CASKVNLVKIASTASSPRDTALAAVICSALATVLLALLILCVIYCKRQFMEKKPSWS 205
              |:| : | :    | :   : :  |:   :: |::| :|  | | |         |:
Db     192 DVVCSSSMTLRRPPKEAQAYLPSLI--VLLLFISVVVVAAIIFGVYYRKGGKALTANLWN 249

Qy     206 -LRSQDIQYNGSELSCLDRPQLHEYAHRACC---QCRRDSVQTCGPVRLLPSMCCEEACS 261
            :       :|:: |  ||           |          : |  : |   |  ||
Db     250 WVNDACSSLSGNKESSGDR----------CAGSHSATSSQQEVCEGILL---MTREEKMV 296

Qy     262 PNPATLGCGVHSAAS--------------LQARNAGPAGEMVPT----------FFGS 295
           |       ||   ||                    :    |     :||          ||
Db     297 PEDGAGVCGPVCAAGGPWAEVRDSRTFTLVSEVETQGDLSRKIPTEDEYTDRPSQPSTGS 356

Qy     296 LTQSICGEFSDAWPLMQNPM---GGDNISFC--------------------DSYPELT 330
           |   :  : | : |  | |:     |::| |                      || |
Db     357 LL--LIQQGSKSIPPFQEPLEVGENDSLSQCFTGTESTVDSEGCDFTEPPSRTDSMP--V 412

Qy     331 GEDIHSLNPELESSTSL----DSNSSQDLVG-GAVPVQSH 365
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Db     413 SPEKH-LTKEIEGDSCLPWVVSSNSTDGYTGSGNTPGEDH 451
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RESULT  15
US-08-995-659-15
; Sequence 15, Application US/08995659
; Patent No. 6242213
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Ligand for Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/995,659
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2852-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  15:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  625 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-995-659-15


  Query Match             6.0%;  Score 136;  DB 4;  Length 625;
  Best Local Similarity   22.2%;  Pred. No. 0.00023;
  Matches  102;  Conservative   51;  Mismatches  171;  Indels  136;  Gaps   27;

Qy      16 LLVLLGYLSCKVTCE-TGDCRQQEFRDRSGNCVPCNQCGPGMELSKECGFGYGEDAQCVT 74
           | |||  :  :|| : |  | |:   :  | |  |::| ||  || :|      |: |:
Db      18 LCVLL--VPLQVTLQVTPPCTQERHYEHLGRC--CSRCEPGKYLSSKC--TPTSDSVCLP 71

Qy      75 CRLHRFKEDWGFQ-KC---KPC-LDCAVV-----NRFQKANCSAT------SDAIC---- 114
           |    : : |  : ||   | |    |:|      |      |: |      ||  |
Db      72 CGPDEYLDTWNEEDKCLLHKVCDAGKALVAVDPGNHTAPRRCACTAGYHWNSDCECCRRN 131

Qy     115 GDCLPGFYRKTKLVGFQDMECVPC-----------GDPPPPY---------EPH------ 148
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Db     132 TECAPGFGAQHPLQLNKDTVCTPCLLGFFSDVFSSTDKCKPWTNCTLLGKLEAHQGTTES 191

Qy     149 ---CASKVNLVKIASTASSPRDTALAAVICSALATVLLALLILCVIYCKRQFMEKKPSWS 205
               |:| : | :    | :   : :  |:   :: |::| :|  | | |         |:

Db     192 DVVCSSSMTLRRPPKEAQAYLPSLI--VLLLFISVVVVAAIIFGVYYRKGGKALTANLWN 249

Qy     206 -LRSQDIQYNGSELSCLDRPQLHEYAHRACC---QCRRDSVQTCGPVRLLPSMCCEEACS 261
            :       :|:: |  ||          |  .        : |  : |   |  ||
Db     250 WVNDACSSLSGNKESSGDR----------CAGSHSATSSQQEVCEGILL---MTREEKMV 296

Qy     262 PNPATLGCGVHSAAS--------------LQARNAGPAGEMVPT----------FFGS 295
           |      ||   ||                 :    |   . :||            ||
Db     297 PEDGAGVCGPVCAAGGPWAEVRDSRTFTLVSEVETQGDLSRKIPTEDEYTDRPSQPSTGS 356

Qy     296 LTQSICGEFSDAWPLMQNPM---GGDNISFC--------------------DSYPELT 330
           |   :  : | : |  | |:     |::| |                    || |
Db     357 LL--LIQQGSKSIPPFQEPLEVGENDSLSQCFTGTESTVDSEGCDFTEPPSRTDSMP--V 412

Qy     331 GEDIHSLNPELESSTSL----DSNSSQDLVG-GAVPVQSH 365
             : | |  |:|  : |     |||:    | |  | : |
Db     413 SPEKH-LTKEIEGDSCLPWVVSSNSTDGYTGSGNTPGEDH 451


Search completed: April 10, 2002, 17:16:25
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